



U N I V E R S I T Y O F
ROCHESTER

Undergraduate Course Description Handbook • Fall 1997

March 1997

Descriptions of courses are subject to change. To find when these courses are being offered, check the Course Schedule. The information available in this publication, and the Course Schedule can be found on-line through the University of Rochester home page.

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The Undergraduate Course Description Handbook is prepared in March 1997. The information contained in this publication may change. To find the most up-to-date description of courses and the up-to-date list of courses that will be offered in the Fall 1997 term can be found on the University of Rochester home page, located at: <http://www.rochester.edu>. Please feel free to contact the Office of the University Registrar if you have any questions, at 275-5131, or e-mail us at: registrar@macmail.cc.rochester.edu.

Upper-Level Writing Course

All students in The College: Arts & Sciences, in addition to the basic writing requirement are required to complete two authorized upper-level writing courses in which substantial attention is devoted to writing. Writing sections are indicated with a 'W' following the course reference number in the Course Schedule. There are two types of writing courses "inclusive" and "optional." A course is "inclusive" if all students enrolled are eligible to receive upper-level writing credit. A course is "optional" if there is both a writing and non-writing section for the same course. A limited number of students in optional courses will enroll in the upper-level writing section and will receive upper-level writing credit by completing additional assignments, while the remainder of the class will enroll in the non-writing section of the same course.

Students may also petition the College Writing Committee for individual upper-level writing credit in courses which do not have a writing section. Permission of the instructor is required prior to filing the petition with the Center for Academic Support, 312 Lattimore Hall.

Students may not take courses for upper-level writing credit until the primary writing requirement has been satisfied. An updated list of writing sections is available on-line through the University of Rochester home page (<http://www.rochester.edu>) or is posted outside the Center for Academic Support, 312 Lattimore Hall.

The College: Arts & Sciences

Department: The College: Arts & Sciences
Course: CAS 150
Title: GO: Game & Culture
Instructor: Weimer, D
Restrictions: Permission of Instructor required
Description: An introduction to the ancient oriental game of Go. Study of the game will be used as a window on Japanese Culture and as a model of conflict.

African & African-American Studies

Department: African & African-American Studies
Course: AAS 107
Title: History of Islam
Cross-listed: REL 107
Instructor: Homerin,E
Description: See REL 107 for description.

Class Size: 20

African & African-American Studies

Department: African & African-American Studies
Course: AAS 141
Title: African-American History to 1900
Cross-listed: HIS 141
Instructor: Hudson, L. **Class Size:** 25
Exams: 2 papers, pop quizzes, term paper, final exam
Coursework: term paper
Description: This course will consider the cultural and political development of Africans in America from the seventeenth century to the end of the nineteenth century. The main issues raised will be: What kind of cultural practices did the Africans bring with them to North America, and how were they adapted to cope with as well as influence the realities of a strange land and the demands of slavery? How did these Africans view America North and South? How different was life for those who were black but not slaves? Before 1900, did African-Americans endeavor to become full members in American society, or did a distant Africa continue to beckon? The course readings, lectures, and overall structure, will be guided by these questions. Main texts: Basil Davidson, *Africa In History: Themes and Outlines*; Olaudah Equiano, *The Life of Olaudah Equiano, or Gustavus Vassa, The African*; Mechal Sobel, *The World They Made Together: Black and White Values in Eighteenth-Century Virginia*; William Pierson, *Black Yankees: The Development of an Afro-American Subculture in Eighteenth Century New England*.

Department: African & African-American Studies
Course: AAS 205
Title: Black Intellectuals and the Crisis of the 20th Century
Cross-listed: PSC 263/ENG 226/HIS 263
Instructor: Fields, K. **Class Size:** 50
Restrictions: Permission of instructor required for freshmen
Exams: midterm, final
Coursework: 2-3 papers
Description: This course explores aspects of politics that are revealed by efforts to dismantle or maintain oppressive regimes: What forms of political action are available to slaves, the colonized, and the disenfranchised against what forms of political action by their "betters?" How does culture shape political debate and strategy? To what extent is oppression built upon the consent of the oppressed? This course explores these problems by analyzing the work of major political thinkers in the United States, Africa, and the Caribbean - Martin Luther King, Jr., Frederick Douglass, W.E. B. Du Bois, Booker T. Washington, Wole Soyinka, Frantz Fanon and others.

Department: African & African-American Studies
Course: AAS 219
Title: Special Problems in Applied Research Methodology
Instructor: Ebenhack, Ben **Class Size:** 20
Coursework: Oral Presentation, Journalling and work with community participants
Description: This is a service-learning course in which UR students perform a field service project and bring observations and discussion to class for analysis. An on-going project has been to tutor and mentor community high school students. The philosophy of challenging students rather than remediating their problems is tested. Systemic and individual problems are discussed.

Department: African & African-American Studies
Course: AAS 226
Title: African American Writers
Instructor: Middleton, J. **Class Size:** 5
Description: See ENG 226 for description

African & African-American Studies

Department: African & African-American Studies
Course: AAS 242
Title: The Role of Technology & Development in the Third World
Cross-listed: PSC 242/PPA 442
Instructor: Ebenhack, B. **Class Size:** 35
Restrictions: Permission of instructor required for freshmen
Exams: Quizzes and midterm
Coursework: Final paper
Description: This course explores the role of technology in development in the Third World, and factors affecting technological development. It focuses on the concept of appropriate technology, and means of analyzing the appropriateness of various technologic development and approaches. We will consider the evolution of technology, and its application in lesser-developed countries: exploring the relationship of technology to development. The complexities of conditions which led to development in the industrialized world and the conditions required for development in lesser developed countries require detailed consideration. The Access to Hydrocarbon Energy for African Development and some related cases are utilized to make tangible some of the issues.

Department: African & African-American Studies
Course: AAS 252
Title: Economics & Societies in Latin America and the Caribbean Since 1492
Cross-listed: ECO 252/HIS 203
Instructor: Inikori, J. **Class Size:** 30
Exams: midterm and final
Description: The main thrust of the course is to attempt to provide an historical explanation for the general problem of material poverty and the 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 world system.

Department: African & African-American Studies
Course: AAS 265
Title: Comparative Perspectives on Race, Culture and Politics
Cross-listed: PSC 265
Instructor: Harris, F. **Class Size:** 15
Description: The course will examine the formation of racial solidarity in the political sphere, state policies regarding racially dominated groups and for institutionalized political entities. The course will cover the US, South Africa, the UK, Brazil, and others.

Department: African & African-American Studies
Course: AAS 266
Title: Colonial and Contemporary Africa
Cross-listed: HIS 266
Instructor: Mandala, E. **Class Size:** 20
Exams: Midterm and final
Coursework: one 10-15 page paper
Description: See HIS 106 for description

Department: African & African-American Studies
Course: AAS 297
Title: South Africa: A History of Apartheid
Cross-listed: HIS 297
Instructor: Moore, J. **Class Size:** 7
Exams: Midterm/Final
Description: See HIS 297 for description

Department: African & African-American Studies
Course: AAS 335
Title: Major Lit Fig: Toni Morrison
Cross-listed: ENG335/WST335
Instructor: Middleton, J. **Class Size:** 5
Description: See ENG 335 for description.

African & African-American Studies

Department: African & African-American Studies
Course: AAS 375
Title: The Atlantic Slave Trade and Africa, 1650-1850
Cross-listed: HIS 356/HIS 356W/HIS 456/ECO 385/ECO385W
Instructor: Inikori, J. **Class Size:** 8
Coursework: Term Papers
Description: The course begins with a general view of the level of socio-economic development in Africa by the late 15th century, relative to the other major regions of the world at the time. It then proceeds to examine the total numbers of people directly exported from Africa by way of the Atlantic trade and the demographic effects on Africa. The effects of the "production" of captives for export on social and political structures, and the overall economic consequences of the trade in Africa are also examined. The main thrust of the course is to show the extent to which the Atlantic slave trade retarded the development of capitalism in Africa between 1650 and 1850, and so creating the conditions for the imposition of European colonial domination on the continent from the late 19th century. Senior Seminar -- Juniors with permission of Instructor.

Department: African & African-American Studies
Course: AAS 393
Title: INDEPENDENT STUDY:Hydrocarbon Energy for African Development
Cross-listed: CHE 393
Instructor: Ebenhack, B **Class Size:** 6
Restrictions: Permission of Instructor
Description: Lack of energy resources to meet internal needs is a major problem in many lesser-developed countries: prohibiting industrialization and transport, even failing to meet the most basic needs for cooking and sanitation in many cases. Small scale localized energy production is an important initiative. Independent studies on some aspect of this problem, solutions to it, and relationship to development issues, including work with the instructor's Access to Hydrocarbon Energy for African Development project can be done within this course.

American Sign Language

Department: American Sign Language
Course: ASL 101
Title: Beginning American Sign Language I **Class Size:** 18
Exams: Bi-weekly 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 105
Title: Intermediate American Sign Language I **Class Size:** 18
Prerequisites: ASL 102
Description: This course emphasizes further development of receptive and expressive skills. Introduction to language forms used in ASL poetry and to the features of culture as they are displayed in art and the theater.

Department: American Sign Language
Course: ASL 150
Title: Int Signed Languages of the World
Cross-listed: LIN 150
Description: An introduction to and overview of signed languages around the world, how they differ, and how they develop. No signing skills required.

Department: American Sign Language
Course: ASL 201
Title: Literature in American Sign Language
Instructor: Schlehofer, D. **Class Size:** 15
Prerequisites: ASL 105
Coursework: Three projects required.
Description: Study of selected videotapes and films ranging from the early 1900s to the present. emphasis will be placed on historical background, meaning of the story content, discussion of grammatical feature and styles revealed in these contents.

American Sign Language

Department: American Sign Language
Course: ASL 202
Title: History and Culture of the American Deaf Community
Instructor: Schlehofer, D. **Class Size:** 15
Prerequisites: ASL 106
Description: Discussion of various aspects of the American Deaf Culture, including description of deafness, and the deaf community.

Department: American Sign Language
Course: ASL 209
Title: Teaching ASL as a Second Language
Instructor: Greer, L. **Class Size:** 15
Prerequisites: ASL 106 and Permission of the Instructor
Description: This course is designed to provide ASL tutors how sign language is taught in various settings and what the current methods and theories are. Students will learn about the history of sign language teaching and resources to support such efforts. Students will be provided opportunities to practice basic teaching techniques and select appropriate materials to introduce cultural and grammatical features in lessons.

Department: American Sign Language
Course: JSL 101
Title: Japanese Sign Language
Cross-listed: LIN 153
Description: An introductory course in Japanese Sign Language, as developed and used by the deaf community in Japan; includes vocabulary, sentence structure, and elementary conversation. In addition to language instruction, the course provides a survey of many issues raised by examining JSL: comparison of JSL structure with that of other signed languages, in particular American Sign Language; oral-manual education and historical treatment of deafness; the sociological and cultural makeup of Deaf individuals in Japan.

Anthropology

Department: Anthropology
Course: ANT 101
Title: Cultural Anthropology **Class Size:** 40
Restrictions: Open only to freshmen and sophomores
Coursework: Classes combine lectures and discussion, readings and films.
Description: The aim of this course is to introduce you to cultural anthropology and to familiarize you with some of the work anthropologists do. In the course we explore anthropological interpretation, research and writing as we examine the ways different peoples understand and express their reality. During the first weeks we examine key concepts such as Culture, Fieldwork and Interpretation. We then read anthropologists' accounts of cultural patterns and processes in different parts of the world--accounts that challenge our own common sense views. Finally, we finish off the semester by considering recent developments in anthropology as we return to issues raised during the first weeks of the semester.

Department: Anthropology
Course: ANT 102
Title: Introduction to Medical Anthropology
Instructor: Emmett, A **Class Size:** 40
Restrictions: Open only to freshmen and sophomores
Coursework: Lectures, discussions, readings, films
Description: This course will examine a broad range of topics in the study of medical and health care systems from an anthropological and cross cultural perspective. An introductory section will integrate the many approaches to illness and disease that constitute "medical anthropology," and the body of the course will consider several major areas of anthropological work on these subjects: ethnomedicine, or "folk medicine"; childbearing and family planning; the roles of 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.

Anthropology

Department: Anthropology
Course: ANT 202
Title: Modern Social Theory: Key Texts and Issues
Cross-listed: ANT 202W
Instructor: Gibson, T. **Class Size:** 25
Prerequisites: Primarily for Anthropology Majors and Majors in the Social Sciences & Humanities
Coursework: Four 5 to 7 page papers, participation in class discussion
Description: This course involves close reading of selected texts by three authors who established the framework of modern social theory. Karl Marx, Emile Durkheim, and Max Weber. Readings will focus on each author's attempt to comprehend the possibilities and pathologies of industrial capitalism. The course addresses both the future of the US in a global capitalist economy and the search for community in contemporary American society. In addition to classic works, readings will include contemporary books such as "The Work of Nations" by Robert Reich and "Discipline and Punish" by Michel Foucault. This course is also offered as Upper Level Writing to anthropology majors or by permission of instructor.

Department: Anthropology
Course: ANT 205
Title: Debates and Theories in Anthropology
Cross-listed: ANT 205W
Instructor: Foster, R. **Class Size:** 25
Prerequisites: None; previous anthropology helpful
Restrictions: Permission of instructor required for freshmen
Coursework: Three papers; class presentation
Description: This course examines contemporary and historical debates that have shaped theory and method in cultural anthropology. It will demonstrate how theoretical interests in anthropology shift over time and differ between national traditions. The course aims to show how the development of anthropological thought takes place within a context of ongoing debate and changing assumptions. This course is also offered as Upper Level Writing for anthropology majors and minors.

Department: Anthropology
Course: ANT 218
Title: Birth and Death: Anthropology of Vital Events
Instructor: Carter, A. **Class Size:** 30
Description: Birth and Death explores the ways in which men and women in a variety of cultures conceive of and deal with population processes and population problems -- at the individual, family and societal levels? The course introduces students to the use of census materials, the demography of small populations, and the fundamentals of ethnographic analysis. The material will be useful for students interested in aspects of social work, public policy, and international health.

Department: Anthropology
Course: ANT 233
Title: Nationalism and Gender
Cross-listed: WST 215
Instructor: Ali, Kamran **Class Size:** 30
Description: Using ethnographic, historical and literary sources the course will investigate the colonial and post-colonial history of the nation-state. Focusing on material from South Asia and the Middle East the course will develop a linkage between the discourse on nationalism, religious fundamentalism, and ethnic politics. The class will further evaluate how these nationalistic debates construct gendered bodies and redefine notions of masculinity and femininity in societies under discussion.

Department: Anthropology
Course: ANT 245
Title: American Culture
Instructor: Emmett, A. **Class Size:** 30
Description: At the heart of this course is the question: What are some of the critical debates that dominate American culture? The course focuses on major debates that occupy American public life in areas such as politics, religion, health, and the media. Using Anthropology's crosscultural perspective we will explore some core cultural principles that underlie current debates in various spheres of public life.

Anthropology

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

Department: Anthropology
Course: ANT 252
Title: Contemporary Eastern Europe
Cross-listed: PSC 298
Instructor: Hauser, E. **Class Size:** 30
Description: An overview of problems in communist and post-communist society will constitute the core of this course. Students will read basic texts by Eastern European scholars and novelists, view films and documentaries focusing on the development of democratic opposition to the former party states, and consider recent examples of post-communist social criticism. Problems of democratic culture and institutions will be discussed on the basis of recent news stories, articles, and political events coverage.

Department: Anthropology
Course: ANT 266
Title: Global Culture
Cross-listed: ANT 466
Instructor: Foster, R. **Class Size:** 30
Prerequisites: None; previous anthropology helpful
Restrictions: Not open to freshmen
Exams: 2 exams; 1 research paper
Coursework: Class presentation
Description: In what sense is there a global culture taking shape at the end of the twentieth century? What becomes of cultural differences and identities in a world of people increasingly connected to each other by a single capitalist market? This course looks at social processes that accelerate the circulation of ideas, people, and objects across the planet at unprecedented velocity: commodity consumption, mass media, electronic communication, tourism, migration, environmental movements, and so forth. It explores the contours of an emergent global culture and tries out various ethnographic methods for studying this culture.

Department: Anthropology
Course: ANT 291
Title: Research Practicum: Doing Anthropology
Instructor: Carter, A. **Class Size:** 30
Restrictions: Permission of department required
Description: An introduction to the craft of social and cultural anthropology. The class is organized around individual and group exercises in designing and carrying out ethnographic research. This course is offered as Upper Level Writing for Anthropology and Health and Society Majors

Art & Art History

Department: Art & Art History
Course: AH 105
Title: Intro to Images & Imagination: Ancient to Medieval Art
Instructor: Holly, M. **Class Size:** 100
Exams: Midterm/Final
Description: An introduction to painting, sculpture, and architecture from 25,000 B.C.E. to 1300 C.E. Our principal periods of concentration will be Paleolithic, Egyptian, Greek, Roman, and medieval art, and we will focus on various approaches to understanding works of art as historical documents. Lectures with some discussion. Reading assignments will be drawn from introductory texts.

Art & Art History

Department: Art & Art History
Course: AH 128
Title: Modern Art
Instructor: Seiberling, G. **Class Size:** 50
Exams: Midterm/Final
Coursework: Two short museum papers
Description: This is an introductory course which will discuss major modernist movements of 19th and 20th century art, such as Impressionism, Post-Impressionism, Cubism, Surrealism, Abstract Expressionism, and Pop Art. Students in the course will gain a knowledge of "the canon" but we will discuss ways in which the notion of the modernist tradition is a construct with significant omissions, such as works by women and people of color. We will also discuss the ideological role museums and other institutions play in presenting art. Assignments in the Memorial Art Gallery will develop skills in formal analysis and making historical connections. The course will be taught by lecture and discussion, including on-line discussion. The textbook will be supplemented by other readings and a web site which will provide images and alternative views.

Department: Art & Art History
Course: AH 130
Title: History of Photography
Instructor: Chiarenza, C. **Class Size:** 30
Exams: Two exams
Coursework: Three short papers
Description: An historical exploration of the many cultural uses and abuses of photography as a medium of modern art and as a means of the visual representation of modern ideas, beliefs, themes, events, objects, and people.

Department: Art & Art History
Course: AH 136
Title: Introduction to the Art of Film
Cross-listed: ENG 132/FS 132
Instructor: Cartwright, L.
Description: See ENG 132 for the description.

Department: Art & Art History
Course: AH 190Q
Title: Exploring Collections/Creating Exhibitions
Instructor: Chiarenza, C.
Coursework: Requirements: Attendance, short papers, a journal, and a final project.
Description: Research and development of a mock exhibition and catalog using the collections and resources of the George Eastman House (International Museum of Photography and Film). The theme for Fall '97 is International Photography in the 1920's: Perception, Film, Painting, Society, and Politics Between the Wars. After initial sessions at the UR the class will meet weekly at the museum. Bus transportation will be provided.

Department: Art & Art History
Course: AH 196Q
Title: Tokyo: Making of a Modern City
Cross-listed: JPN 196Q/CLT 196Q/HIS 194Q
Instructor: Pollack, D.
Description: See JPN 196Q for description.

Department: Art & Art History
Course: AH 204
Title: Memoir, Social History & Cultural Theory
Cross-listed: AH 404
Instructor: Wolff, J. **Class Size:** 15
Restrictions: Permission of Instructor
Coursework: The seminar will be organized around student presentations, which may form the basis for final essays. Assessment will be based on class participation, presentation and essay.
Description: This is a graduate seminar, which will explore the role of personal narrative in social and cultural histories. We will read and discuss a number of recent texts which address the question of the relationship between personal and academic writing. This will include work in feminist criticism, cultural studies, memoir and autobiographical writing. Issues to be addressed include: objectivity/ subjectivity; micrological analysis; the intersections of identity and cultural text; collective memory; the politics of memory and commemoration; the nature and limits of academic writing.

Art & Art History

Department: Art & Art History
Course: AH 210
Title: Woman as Image & Text
Cross-listed: AH 410/WST 214
Instructor: Seiberling, G.
Coursework: Classes will center around discussion of readings and images. There will be a take-home mid-term and final exam. Students will keep a journal and write a term paper with a draft.
Description: Feminist art historians have changed the way we think about images of women, works by women artists, and the very notion of artistic genius. This course will investigate the way in which visual images of women participate with other cultural and social factors in the construction of the idea of woman. It will look at types and conventions in works by male and female artists, as well as in anonymous prints and advertising from different periods, with a concentration on the 19th and 20th centuries. Readings will introduce a variety of approaches.

Department: Art & Art History
Course: AH 218W
Title: Introduction to Archaeology
Cross-listed: HIS 200W
Instructor: Walsh, D.
Coursework: Students will write three, approximately six-page, essays on history, technique and interpretation.
Description: This course introduces the discipline and methods of archaeology. In the first half of the course, we will deal with the history of archaeology in Europe and the Near East from the work of the antiquarians to the projects of the late 20th Century. During the remainder of the term, we will study a selection of modern techniques of survey and excavation, the presentation of material for archaeological publication, as well as the interpretation of archaeological evidence.

Department: Art & Art History
Course: AH 226
Title: Arts of Buddhist Asia
Cross-listed: AH 226W/REL 282
Instructor: Dohanian, D. **Class Size:** 15
Exams: Two or three papers assigned and short written exercises.
Coursework: The classes will be conducted by a combination of lecture and dialogue, and will be supplemented by assigned readings from books on reserve in the Art Library.
Description: The course will introduce the student to Buddhism as a religious and cultural force and to the arts which were produced as an expression of its principal ideals. The development of Buddhist art will be traced from its origins in India to its Eastern-most manifestations in Japan and Indonesia.

Department: Art & Art History
Course: AH 230
Title: Chinese Painting
Cross-listed: AH 230W/430
Instructor: Dohanian, D. **Class Size:** 20
Exams: Two tests.
Coursework: Selected reading and essays.
Description: Art as Politics: The relation of good painting to good government. Masterworks of Chinese painting will be studied in their historic contexts and in their relation to developing theories of art and connoisseurship. Individual examples of painting will be measured against contemporary aesthetic ideals and will be related to evolving theories of the social functions of art in China. During the term, the focus of the course will be the art, artists, theorists, and patrons of the Southern Sung and Yuan Dynasties. Developments in the nature of painting and its specific social functions will be examined against the backdrop of traumatic and revolutionary social and political change, and with reference to the character of its history as the primary form of artistic expression in China.

Art & Art History

Department: Art & Art History
Course: AH 238W
Title: Romanesque Art & Architecture
Cross-listed: REL 279
Instructor: D. Walsh **Class Size:** 20
Description: This course explores the origins, development and regional manifestations of western European art and architecture of the Romanesque period (11th and 12th centuries AD). The first half of the course includes an introduction to the history of the period and the methods of analysis of sculpture, painting, and architecture. In the second half, there will be class discussions of specialized topics and interpretive problems stressing reading and visual analysis.

Department: Art & Art History
Course: AH 247
Title: High Renaissance in Rome
Cross-listed: AH 247W
Instructor: Baskins, C. **Class Size:** 30
Prerequisites: AH 106 or AH 246 is recommended, but not required
Exams: Midterm/Final
Coursework: Two papers. May be taken as a writing intensive section.
Description: This course covers painting and sculpture of the 16th century in Italy, especially the developments of the High Renaissance in Rome, Florence and Venice, and the evolution of Mannerism and the maniera in the later half of the century. Major artists to be studied include Leonardo da Vinci, Raphael, Michelangelo, and Titian, along with the emergence of women artists like Sofonisba Anguisciola. The association of art and power dominates this period and we will consider the interrelationship of structures of patronage, the evolution of the Academy, the cult of "personality," the relations between Europe and the "new World," and the roles of various media and genres in creating or reflecting power and authority.

Department: Art & Art History
Course: AH 251
Title: From Parchment to Press: The History of Printmaking
Cross-listed: AH 251W
Instructor: Baskins, C. **Class Size:** 15
Prerequisites: AH 106, AH 103 recommended, but not required.
Exams: Mid-term and final
Description: This course will survey the development of graphic media from the illuminated manuscript, through woodcuts, engraving, etching and lithography. Will consider both "master printmakers" like Albrecht, Durer and Rembrandt as well as the role of print media in popular imagery like broadsheets and comic strips. Students will have the opportunity to work with incunabula and original prints in local collections.

Department: Art & Art History
Course: AH 256
Title: American Architecture
Instructor: France, J.
Exams: Two exams and final.
Coursework: Term paper requiring independent research and comparative analysis; required field trip.
Description: An historical survey of American architecture from the earliest colonial settlements -- Spanish, French, Dutch, and English -- through the 18th and 19th centuries. The course studies the major historical styles and their cultural sources, the work of important American architects, and the influence of building technology.

Department: Art & Art History
Course: AH 272
Title: Film History: Documenting Health
Cross-listed: ENG 254/ENG 254W/454/FS 254/WST 232/232W/AH 472
Instructor: Cartwright, L. **Class Size:** 30
Description: See ENG 254 for description.

Department: Art & Art History
Course: AH 273
Title: Art of Film: Film Analysis
Cross-listed: ENG 250/ENG 250W/ENG 450
Instructor: Cherchi-Usai, P. **Class Size:** 30
Description: See ENG 250 for the description.

Art & Art History

Department: Art & Art History
Course: AH 273
Title: Art of Film:Film Analysis - Paris
Cross-listed: ENG 250/FS 250
Instructor: Rodowick, D.
Description: See ENG 250 for the description.

Department: Art & Art History
Course: AH 284
Title: Topics in Modern Architecture: Los Angeles Modern
Cross-listed: AH 484
Instructor: Crimp, D.
Description: The architecture of Los Angeles will serve two different purposes in this seminar. On the one hand, we will study the whole range of modern architecture--from mission style (Gill), arts and crafts (Greene and Greene) and the early modernists (Wright, Schindler) to high 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 will look at the strange utopia/dystopia of Los Angeles as an example of a new kind of urbanism and style of living. Our texts will include not only studies of architecture, but also Hollywood films (Chinatown, Bladerunner), detective novels (Raymond Chandler), new journalism (Joan Didion), and urban theory (Reyner Bahnam, Mike Davis).

Department: Art & Art History
Course: AH 285
Title: Topics in Visual & Cultural Studies: Cultural Studies for and against "High Art"

Cross-listed: AH 485
Instructor: Crimp, D.
Description: Cultural studies has staked its claim on taking popular culture and audiences seriously, often resulting in "no respect" for so-called high art. But in an era when fans fill football stadiums to hear the three tenors, thousands wait in line for Vermeer at the National Gallery, and Oprah makes "Song of Solomon" a best, where and how do we draw the line on the popular? This seminar will revisit earlier arguments for serious art as a realm of freedom and individuality, examine laments and celebrations of the end of the avant-garde, and determine how high/low distinctions are made now. We will also consider how cultural studies as a methodology might be used to study "elite" art forms. One example of the work already being done is recent writing on opera from the perspective of its (queer) fans: "The Queen's Throat", "In Praise of Brigitte Fassbaender". Our purpose will be to imagine other possible models.

Department: Art & Art History
Course: AH 286
Title: Theory, Practice and Criticism of Contemporary Art
Cross-listed: AH 486
Instructor: Crimp, D.
Description: This seminar is designed to provide a forum for the discussion of art work produced by students. Participants should be either actively engaged in art making or be interested in a critical involvement with fellow students' work and the wider arena of contemporary cultural production. We will read cultural theory and art criticism and examine institutional practices and politics. Students who do not themselves make art will be able to hone critical writing skills and/or develop exhibition ideas. There will not, however, be sharp divisions between theory and practice; the goal is to expand our conception of cultural work in more inclusive and interdisciplinary directions.

Art & Art History -- Studio Arts

Department: Art & Art History -- Studio Arts
Course: SA 111
Title: Drawing I **Class Size:** 15
Restrictions: Not open to seniors
Coursework: Assignments are informed by frequent lectures, slide presentations, and gallery visits. No previous art experience needed.
Description: Drawing I explores basic principles of visual organization and investigates, at an elementary level, approaches to art production. Emphasis is given to learning a variety of processes; the resulting products act as documents of sight and insight. The quality and quantity of production, combined with contributions provided in individual and group critiques that occur throughout the semester, act as the major means of evaluation. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 121
Title: Painting I **Class Size:** 15
Instructor: Venezia, M.
Restrictions: Not open to seniors
Exams: Ongoing review; portfolio presentation at conclusion of semester.
Description: The beginning studio in painting emphasizes direct experience with practical processes and compositional ideas. Selection of basic materials and surface preparation is demonstrated and discussed as a participatory experience. Initial paintings explore color application. Through a series of specific proposals, students are encouraged to explore structure with an emphasis on recognizing issues of individual investigation. Group discussions and individual meetings are on a weekly basis. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 131
Title: Sculpture I **Class Size:** 15
Instructor: Topolski, A.
Restrictions: Not open to seniors
Coursework: Assignments are informed by frequent lectures, slide presentations, and gallery visits.
Description: This course explores the basic elements of sculpture; the resulting projects exhibit one's investment in formal considerations, craft and thoughtful content. The produced works combine with contributions provided in individual and group critiques to form the major means of evaluation. Attention will be given to learning to see things accurately and express things lucidly; your works will be considered expressive documents of both sight and insight. Each assignment, building upon the previous, will help acquire a better understanding of such things as: scale, texture, dimension, composition and form. Cardboard, clay, wood, and plaster are the means to exploring the motives and impulses inherent in the act of making. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 141
Title: Photography I **Class Size:** 12
Instructor: Mertin, R.
Restrictions: Not open to seniors
Exams: Mid-term and final portfolio presentation.
Description: SA 141 at Sage Arts Center is a studio course for both beginning and continuing work in photography. Basic principles and procedures for photography with black and white light-sensitive materials will be covered. This course is about discovery and about learning to see. To aid this process, we will look at selected works by other artists, but emphasis will be on each student's own visual exploration, which will be assisted by working on a series of formal problems, on an extended visual exploration of issues relating to self, and on an independent project. Studio art supplies fee: \$25.

Art & Art History -- Studio Arts

Department: Art & Art History -- Studio Arts
Course: SA 151
Title: Digital Interpretations **Class Size:** 15
Prerequisites: Some familiarity with Macintosh computer required
Restrictions: Not open to seniors
Description: This course is an introduction to the use of the Macintosh computer in the production of visual art. Aesthetic, social and technical aspects of computer art will be explored. We will use and discuss a range of painting, graphics, photographic and multimedia programs. Students will be encouraged to consider how computer-based techniques can be integrated with conventional studio art techniques. Weekly assignments will give students hands-on experience with applications and the opportunity to pursue individual creative projects. Short required readings and class discussions will address the history and social context of computer art. Students should be familiar with the use of the Macintosh computer. Experience with paint or graphics programs is not required. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 222
Title: Painting and Related Media II, III & IV
Cross-listed: SA 223/SA 224
Instructor: Venezia, M. **Class Size:** 15
Prerequisites: Painting sequence (i.e. 222, 223, 224) or equivalent
Restrictions: Permission of Instructor
Description: The evolving continuation of painting with serious emphasis on independent proposals, research and production. The broadest examination of painting and related media is expected. Group discussion and individual meetings are on a weekly basis. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 223
Title: Painting and Related Media II, III & IV
Cross-listed: SA 222/SA 224
Instructor: Venezia, M. **Class Size:** 15
Prerequisites: Painting sequence (i.e. SA 222, 223, 224) or equivalent
Restrictions: Permission of Instructor
Description: See SA 222 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 224
Title: Painting and Related Media II, III & IV
Cross-listed: SA 222/SA 223
Instructor: Venezia, M. **Class Size:** 15
Prerequisites: Painting sequence (i.e. SA 222, 223, 224) or equivalent
Restrictions: Permission of Instructor
Description: See SA 222 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 232
Title: Sculpture II, III & IV
Cross-listed: SA 233/SA 234
Instructor: Topolski, A. **Class Size:** 10
Prerequisites: SA 131; also one 100-level studio and art history course recommended
Restrictions: Permission of Instructor
Description: This course is designed to encompass a broad interpretation of Studio production while investigating and challenging traditional boundaries; its focus is inclusive of and beyond the basic elements of sculpture. The course requires the application of both formal consideration as well as thoughtful content in the production of art. It provides an opportunity to explore and exercise the techniques and conceptual processes that initiate art production cognizant of cultural contexts and particularized to individual interests. Clay, wood, plaster, and steel are commonly the means to exploring the motives and impulses inherent in the act of making; performance, video, and installation serve as invited and alternative approaches. Studio art supplies fee: \$25.

Department: Art & Art History -- Studio Arts
Course: SA 233
Title: Sculpture II, III & IV
Cross-listed: SA 232/234
Instructor: Topolski, A. **Class Size:** 10
Restrictions: Permission of Instructor
Description: See SA 232 for the description.

Art & Art History -- Studio Arts

Department: Art & Art History -- Studio Arts
Course: SA 234
Title: Sculpture II, III & IV
Cross-listed: SA 232/SA 233
Instructor: Topolski, A. **Class Size:** 10
Restrictions: Permission of Instructor
Description: See SA 232 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 242
Title: Photography II, III & IV
Cross-listed: SA 243/SA 244
Instructor: Mertin, R. **Class Size:** 15
Prerequisites: SA 141 plus one other 100-level studio course.
Restrictions: Permission of Instructor
Exams: Mid-term plus final portfolio presentation.
Description: Photography II, III & IV, SA 242, 243 and 244, at Sage Art Center are studio courses open to students with serious interest in photography and to Studio Arts majors and minors concentrating in photography. Emphasis is placed upon individual-initiated and self-directed work designed in consultation with the instructor. Formal projects are assigned to assist with conceptual issues and to improve technical proficiency. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 243
Title: Photography II, III & IV
Cross-listed: SA 242/SA 244
Instructor: Mertin, R. **Class Size:** 15
Restrictions: Permission of Instructor
Description: See SA 242 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 244
Title: Photography II, III & IV
Cross-listed: SA 242/SA 243
Instructor: Mertin, R. **Class Size:** 15
Restrictions: Permission of Instructor
Description: See SA 242 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 350
Title: Advanced Studio I, II & III
Cross-listed: SA 355/SA 360
Restrictions: Permission of Instructor
Description: This independent studio is for studio art concentrators and minors who have completed all 100-level and above requirements. A painting, photography or sculpture instructor serves as your individual advisor and evaluator. All studio faculty are available to assist students in the program. The student must demonstrate capability in communicating ideas and in faculty critiques and group discussions. A substantial body of high quality work will be expected to support your investigations. Studio art supplies fee: \$25

Department: Art & Art History -- Studio Arts
Course: SA 355
Title: Advanced Studio I, II & III
Restrictions: Permission of Instructor
Description: See SA 350 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 360
Title: Advanced Studio I, II & III
Restrictions: Permission of Instructor
Description: See SA 350 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 391
Title: Independent Study
Restrictions: Permission of Instructor
Description: Individual studio work at an advanced level and under the guidance of a member of the Studio Arts faculty. Studio art supplies fee: \$25.

Biology

Department: Biology
Course: BIO 101
Title: Biology and Modern Society
Instructor: Hall, B **Class Size:** 150
Exams: Two midterms, a final, and an undetermined number of pop quizzes.
Description: A lecture course in general biology that is intended to produce an educated layman who can read and understand articles about modern biological issues in the popular press. Basic topics include cell biology and genetics as preparation for understanding material covering genetics of human disorders, cancer, AIDS, human evolution, and applications of recombinant DNA technology to medicine, agriculture, and forensics. Not for students majoring or minoring in biology; does not carry major or minor credit.

Department: Biology
Course: BIO 102
Title: Biology and the Environment
Instructor: Sajdak, SL
Description: A non-majors course which will explore ecological topics such as the distribution of life on earth, biological and economic importance of ecosystems, factors affecting climate, the recycling of resources within natural systems, the relationships of species within ecosystems and how they benefit the health of natural communities. Special topics dealing with issues of conservation and human activity will be addressed. Three one hour lectures per week.

Department: Biology
Course: BIO 110
Title: Principles of Biology I
Instructor: Olek, A. **Class Size:** 250
Prerequisites: Must be enrolled in CHM 103 or 105 concurrently, and have Math SAT scores of at least 510.
Description: A lecture course required of all majors and minors in biology. Major topics include: biochemistry, cellular structures, growth and reproduction, fundamentals of genetics and molecular biology (structure, synthesis, and functioning of DNA, RNA, and proteins) viruses. Three hours of lecture and one recitation per week.

Department: Biology
Course: BIO 115
Title: Human Genetics and Evolution
Instructor: Ochman, H **Class Size:** 100
Description: This freshman honors course focuses on aspects of biology from the perspective of humans and human populations. Lecture topics include the molecular and morphological evolution of primates, genetic diversity and relatedness within human populations, medical genetics, and human ecology and behavior. Three hours of lecture and one hour recitation per week. Open ONLY to freshmen placing out of BIO 110 (with AP scores of 4 or 5), or Wilson Scholars or Bausch & Lomb scholars.

Department: Biology
Course: BIO 121
Title: Genetics
Instructor: Fleming, R. **Class Size:** 350
Prerequisites: BIO 110; concurrent registration in CHM 203 or CHM 205
Exams: Three to four in-class exams
Description: This course covers both classical transmission genetics and molecular genetics. Methods of genetic analysis are emphasized. Major topics include gene mapping, mutation, recombination, biochemical genetics, regulation of gene expression, recombinant DNA technology, transposons, and elements of developmental genetics. Three hours of lecture and one recitation per week.

Department: Biology
Course: BIO 200
Title: Laboratory in Biology
Instructor: Sajdak, S.L. **Class Size:** 24
Prerequisites: BIO 121
Description: An introductory survey of the methods of scientific investigation currently used by biologists. Topics will include field methods for the study of whole organisms and their interactions, population genetics, cytogenetics, and cellular and molecular biology. Exercises and demonstrations in the laboratory or the field. Two four hour sessions per week.

Biology

Department: Biology
Course: BIO 202
Title: Molecular Biology
Cross-listed: BIO 404
Instructor: Hinkle,D
Prerequisites: BIO 121 recommended
Exams: Two midterms, comprehensive final
Description: This course deals with the molecular mechanisms of gene replication, gene expression, and the control of gene expression in both prokaryotic and eucaryotic 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. Three hours of lecture and one recitation per week.

Department: Biology
Course: BIO 203
Title: Mammalian Anatomy
Instructor: Dietsche,A **Class Size:** 120
Prerequisites: BIO 110/BIO 111; or permission of instructor, BIO 150 or BIO 210 highly recommended.
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. Three hours of lecture and one three-hour laboratory per week.

Department: Biology
Course: BIO 219
Title: Advanced Cell Biology: Nuclear Structure and Function
Cross-listed: BIO 419
Instructor: Gorovsky,M **Class Size:** 25
Prerequisites: BIO 121/BIO 150/BIO 202 strongly recommended
Description: The structure and function of formed elements in the nucleus will be discussed. Emphasis will be on understanding how knowledge in this field is acquired, rather than on a comprehensive treatment of all nuclear structures and functions. This understanding will be obtained by analyzing original data, both in lectures and by independent reading of significant papers in the field. BIO 219 will count as a Bio elective for Bio majors and as an Advanced Course for Cell & Developmental and Molecular Genetics majors.

Department: Biology
Course: BIO 226
Title: Developmental Biology
Cross-listed: BIO 426
Instructor: Angerer, R.,Benyajati, C. **Class Size:** 80
Prerequisites: BIO 121, BIO 210 recommended
Exams: Three exams at four-week intervals and comprehensive final
Description: This course deals with the cellular and molecular aspects of animal development, with emphasis on processes and underlying mechanisms. Topics include gametogenesis, fertilization, embryonic cleavage, gastrulation, early vertebrate morphogenesis, determination of fate by cytoplasmic specification and inductive interactions, mechanisms of gene regulation at transcriptional and post-transcriptional levels which mediate specific developmental processes, pattern formation, molecular genetics of Drosophila development and sex determination. Two 75-min lectures per week and an optional weekly help session. Approximately 10 short homework assignments.

Biology

Department: Biology
Course: BIO 228
Title: Laboratory in Cell and Developmental Biology
Cross-listed: BIO 428
Instructor: Zusman,S **Class Size:** 24
Prerequisites: BIO 210
Description: Addresses key cellular and developmental processes using state-of-the-art techniques (such as microscopy, spectrophotometry, radioisotopic labeling, electrophoresis, immunocytochemistry, blotting of proteins and nucleic acids, in situ hybridization, nucleic acid isolation, hybridization, and autoradiography). This course is designed to provide (i) training in specific methods, data acquisition and analysis, and sampling problems, and (ii) experience in the design and execution of original experiments. Two four-hour labs and one recitation per week. Satisfies the lab requirement for the B.A. and B.S. in biology.

Department: Biology
Course: BIO 230
Title: Botany
Instructor: Bannister,T **Class Size:** 50
Description: Classification, morphology, physiology, and ecology of the major groups of land plants. Three hours of lecture and one three hour laboratory per week. Five half-day forays on Saturdays.

Department: Biology
Course: BIO 251
Title: Advanced Molecular Biology
Cross-listed: BIO 451
Instructor: Ray, A.
Prerequisites: BIO 202 or permission of instructor
Description: Molecular mechanisms of maintenance, propagation, and expression of genetic material. Topics include transcription, gene regulation, repair and recombination of DNA, and combinatorial peptide design. Experimental approaches to the understanding of these processes is emphasized and students read the original research literature.

Department: Biology
Course: BIO 260
Title: Animal Behavior
Cross-listed: BIO 460 **Class Size:** 75
Prerequisites: BIO 111 OR PSY 141
Description: Examines animal behavior from an ecological and evolutionary perspective. Topics include social organization, mating systems, foraging, aggression, and animal learning. Students learn quantitative techniques in behavioral biology and conduct independent observations of animal behavior. Three hours of lecture and one recitation per week.

Department: Biology
Course: BIO 263
Title: Ecology
Instructor: Jaenike,J
Prerequisites: BIO 111/MTH 142/MTH 161
Exams: Three mid-term exams plus final exam
Description: A survey of adaptations to the physical environment, dynamics of natural populations, interactions between species, and community structure. Three hours of lecture and one recitation per week.

Department: Biology
Course: BIO 584
Title: Seminar in Evolution
Restrictions: Not open to freshmen and sophomores
Description: Review of current research in ecology and evolution. Weekly seminars presented by students, faculty and visiting speakers.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 110
Title: Neural Foundations of Behavior
Cross-listed: PSY/CVS 110, COG 141
Instructor: Lennie, P. **Class Size:** 150
Description: The course aims to provide an introduction to the brain, its structure and organization, and how it controls everything we do - our perceptions, movements, thoughts, and emotions. The course begins with a brief historical review of ways we have thought about what the brain does, leading to the modern view of the brain as a special kind of computer. We review differences between human brains and animal brains, how we can learn what the brain does, and the kinds of properties that encourage us to think of the brain as a computer. Much of the early part of the course deals with how different functions are localized in different parts of the brain, and what we can learn from observing people and animals who have suffered damage to their brains. We also look at the differences between the brains of males and females, and the possible consequences for behavior. Then we examine how the brain picks up through the senses and analyzes information about what we see, hear and feel -- and how it uses this information to control movements of the body. Later parts of the course examine how the brain controls our sleeping and waking and our emotional behavior and drives, and how brain disorders lead to disordered behavior. The final part of the course explores how the development and ageing of the brain affect behavior.

Department: Brain & Cognitive Sciences
Course: BCS 111
Title: Foundations of Cognitive Science
Cross-listed: COG 101 **Class Size:** 40
Exams: Two mid-term short-answer exams (non-cumulative) and a final exam (cumulative).
Coursework: In addition to lectures, there are weekly recitations; four of these are behavioral experiments. Students are encouraged to attend and participate in all experiments. Three-page essays on two of the 4 experiments are required.
Description: This course introduces students to the idea that cognition is computation, and that cognitive processing is information processing. In this way, the disciplines of cognitive psychology, linguistics, neuroscience, and artificial intelligence share a common goal and mutually inform one another. The first of 4 parts of the course is a review of the two major approaches to the study of cognition. The classical approach, with its roots in computer science, asserts that the mind and the brain can be studied independently. In contrast, a newer approach views the mind and brain as intimately related in the sense that brain structure and organization influence cognitive processing. The 3 remaining parts of the course review the study of visual perception, language processing, and learning from each of these two viewpoints. Students are encouraged to examine the relationships between cognitive domains that are traditionally viewed as distinct. The class emphasizes, for example, that seemingly distinct cognitive processes often influence each other, so it is sometimes difficult to determine where one process ends and the next begins. Students are also asked to consider how far processes such as language and vision, often thought to be quite distinct, operate according to shared principles that are domain independent.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 151
Title: Perception and Action
Cross-listed: PSY/COG/CVS 151 **Class Size:** 80
Prerequisites: BCS/PSY 110 OR BCS/PSY 111
Exams: Two exams and a cumulative final, all multiple choice.
Description: Required for BCS Majors. This a core course, required for the concentration. Formerly "Sensation & Perception." All our contact with the world around us depends on our senses of sight, balance, touch, taste, smell, and hearing. This course will explore each of these sensory systems, showing how their biology shapes our perceptual experience of reality. The course will emphasize the sense of sight primarily and hearing secondarily, since we have the most thorough understanding of these senses. An important theme in the course 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. The course assumes some introductory knowledge of the organization and function of the nervous system, and the ways in which we think about cognitive processes. Students who have not taken BCS 110 or BCS 111 but who think they may be adequately prepared for the course should consult with the instructor.

Department: Brain & Cognitive Sciences
Course: BCS 162
Title: Understanding Reading
Cross-listed: PSY/COG/LIN 162
Instructor: Tanenhaus, M. **Class Size:** 25
Exams: One mid-term, one final. See course work.
Coursework: Grades will be based upon 200 total points. There will be two exams: a mid-term and a final, each worth 100 points. The exams will be take-home exams, with the format to be discussed in class.
Description: Reading is one of the most complex and remarkable human skills. During the last 40 years our knowledge about reading has dramatically increased, largely due to advances in our understanding of natural language and how it is processed, human cognition, and brain functioning. This course examines how people read, drawing on ideas from the cognitive sciences, including linguistics, cognitive psychology, and cognitive neuroscience. We will explore questions such as: (a) What are writing systems and what aspects of language do they represent? (b) What are our eyes doing when we read? (c) What parts of the brain are involved in reading and what are they doing? (d) What factors underlie developmental difficulties in reading? and (e) How does brain damage affect reading? These topics will be discussed at an introductory level; no background in psychology, linguistics or neuroscience is required. The reading will be drawn from serious popular science texts and primary source material.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 200
Title: Experimental Design and Analysis
Cross-listed: PSY 200
Instructor: Chapman, R. **Class Size:** 15
Exams: One mid-term and one final.
Coursework: Text and other readings: There is a required text. In addition, readings and optional readings will be assigned in class, and students will be responsible for that material, which may or may not be covered in the lectures. Two lecture periods and a computer lab.

Description: This course is required for the concentration in Brain and Cognitive Sciences. It can also be used in lieu of the statistics course (an allied field) for the Neuroscience concentration and for the course in statistics required for the PSY concentration. This course has especially to do with methods used in the creation of knowledge and evaluating its validity and the transmission of this information to others. The three fundamental ideas in this course are: (1) Summarizing data. Description [count, central tendency, dispersion] (2) Are things different? How so? [significance, t-test, chi-square, etc.] (3) Are things related? How so? [correlation, regression, interaction] The aim of the course is for three kinds of understanding: (1) What a technique does at a conceptual level. (2) How a technique is reported in the literature. (3) How to execute a technique.

Department: Brain & Cognitive Sciences
Course: BCS 205W
Title: Lab in Development and Learning
Cross-listed: PSY 205W **Class Size:** 15
Prerequisites: BCS 200 and one of the BCS core courses (150, 151, 153) or BCS 172, or equivalent background.
Coursework: This course carries upper-level writing credit. Papers are written and graded both for content and form.
Description: Training in the methods used for studying neural development and learning in infancy through childhood. The course covers observational methods and methods for conducting experiments with infants and young children. Time is provided for group and individually directed projects.

Department: Brain & Cognitive Sciences
Course: BCS 206W
Title: Lab in Cognition
Cross-listed: PSY 206W **Class Size:** 20
Prerequisites: BCS 153 and BCS 200 or equivalent background.
Coursework: 1. General: Attendance is mandatory. There will be several partial lab write-ups as well as several full APA style write-ups of experiments, including a final project. 2. Final Project: Every student will design, run, analyze, and present an experiment.
Description: This course gives students hands on experience with some of the basic experimental procedures, methods of data analysis, and types of models that are used to study cognitive processes. During the first part of the course, students will conduct an experiment in each of the three central domains of cognition: memory, concepts, and language processing. Each experiment will involve (a) collecting behavioral data, (b) analyzing the data using statistical methods, and (c) modeling the data using biologically inspired neural network models, and (d) preparing a short written report. Each student will then design and conduct an original project, present the results to the class, and prepare a written report. Grades are based on reports, class participation, and the final presentation. This course assumes that students have had an introductory statistics course (BCS 200 or its equivalent), covering basic inferential statistics, and an introduction to Cognition (BCS/PSY 153, or its equivalent). The Cognition requirement may be waived with the permission of the instructor for students who have taken other courses that provide appropriate background. No background in computer modeling is assumed.

Department: Brain & Cognitive Sciences
Course: BCS 220
Title: Seeing
Cross-listed: PSY/CVS 220 **Class Size:** 15-20
Instructor: Makous, W.
Prerequisites: BCS 151 or equivalent background.
Description: This is a new course. Initial offering Fall 1997. A review of classical, higher-level visual perception in light of new techniques and recent advances in computational vision and neurophysiology. Topics include illusions, the Gestalt principles, perceptual constancies, and the perception of motion, objects, and orientation in space.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 221
Title: Audition
Cross-listed: NSC 221, PSY 221
Instructor: Ison, J. **Class Size:** 20
Prerequisites: BCS110 or BCS240 or equivalent.
Coursework: The assignments for the course are two brief research/review papers (3-ish pages) and three in- class quizzes. The topic for the paper should be chosen at the end of September and October and the paper handed in 2 weeks later.
Description: This course is for students who are interested in auditory physiology and perception. The course examines both the area of hearing or 'audition' in which understanding the physiological substrate responsible for an important psychological function is relatively well advanced. The course will also serve students interested in the receptive aspects of speech and language and for those who wish to learn about the professional careers concerned with hearing impairment and deafness. The intent in lectures and discussion will be to describe the theoretical and empirical data directly appropriate to a particular topic and will also place this material in a broader context that will be taken up in greater detail later in the course. After providing a background for the physical stimulus for hearing and an overview of the peripheral physiology of hearing, the course covers material on the outer and middle ears, a seemingly simple system for transmission of stimuli that raises some rather surprisingly complex concepts. Next, the cochlea, a much more complicated structure, will be described. Then discussion moves to the auditory nerve and an introduction to the electrophysiological techniques used to study auditory function. Sensory and perceptual correlates of physiology and sensorineural hearing loss will be discussed. Finally, the focus returns to more central aspects of auditory physiology, and, as time permits, brainstem nuclei, auditory cortex, and central control of peripheral function will be considered. This course assumes that students have had BCS 110 or an equivalent, and so are familiar with the basic structure and function of the nervous system and the methods for studying perceptual phenomena. The course will begin with a brief review of these fundamental topics. Students who have not taken the prerequisite but who think they might be adequately prepared for the course should consult the instructor.

Department: Brain & Cognitive Sciences
Course: BCS 227
Title: The Brain in Action
Cross-listed: PSY 227
Instructor: Hayhoe, M. **Class Size:** 10-12
Prerequisites: BCS 110 or BCS 240 (NSC 201) or equivalent background.
Description: Everyday actions such as walking, speaking, looking at someone, or catching a ball are so automatic and easy that it is hard to appreciate the complexity of the brain circuitry that controls our movements. Underlying even the simplest actions is a complex and elegant system whose functioning we are only just beginning to understand. Understanding action requires an understanding of many topics: the properties of the neural circuitry, sensory receptors, and muscle; the mechanics of movement; the role of visual input in controlling actions; the cognitive control of actions; the composition of movement sequences in performing a task; and the development of skilled performance. The course begins with a review of the brain circuitry for control of movement, including spinal reflexes, cerebellum, basal ganglia, and cortical circuits. It will then move on to consider general aspects of human performance such as motor programs and acquisition skills. We will examine certain action systems in detail, such as coordination of the eye, head, and hand in goal directed activity, the control of eye movements; the role of visual feedback, orientation in space and locomotion, and the integration of multi-sensory information to form a sense of the space around us. We will also consider the acquisition of skills such as typing. We then move on to the effects of certain lesions on behavior, importance of cognitive processes such as attention in movement initiation and control, and how actions are composed to form more complex sequences. Students in this course are presumed to have some basic knowledge of neural function and of nervous system organization, and/or to have a basic understanding of sensory systems.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 240
Title: Basic Neurobiology
Cross-listed: NSC 201
Instructor: O'Neill, W.E., Nordeen, K., Kellogg, C. **Class Size:** 50
Prerequisites: BIO 110, BIO 111
Exams: 3 exams during the semester, no cumulative final
Coursework: Lectures, laboratory sessions, computer lab. Three short papers.
Description: Students are introduced to basic, fundamental concepts of neural function. The emphasis will not be on human neural tissue nor necessarily on mammalian nervous systems. Rather, information pertaining to vertebrate as well as invertebrate nervous systems will be presented in order to best demonstrate principles of neural function. Three examinations are given during the semester; each covers the material presented in the unit(s) since the previous examination. However, because of the nature of the material, concepts in any one unit carry over to other units, there will be a certain cumulative aspect to all exams. The exams carry equal weight and account for two-thirds of the final grade. Three short papers are also required, and their preparation will necessitate reading of some primary literature. Organization and clarity of writing will be considered as important as the content of the papers. These papers account for one-third of the final grade.

Department: Brain & Cognitive Sciences
Course: BCS 241
Title: Neurobiology of Behavior
Cross-listed: NSC/PSY 241 **Class Size:** 30
Prerequisites: BCS/PSY 110, NSC 201 or equivalent background.
Exams: 4-6 quizzes, a final exam. A term paper.
Coursework: Lectures and class discussion. A textbook is required and selected articles from the research literature are read.
Description: This course is a survey of biological substrates of behavior focusing on interrogative mechanisms of the brain and their expression in sensory, motor, motivational, and mnemonic functions. Emphasis is given to experimental research on infrahuman mammalian organisms that have provided models of neural organization and operation. The course will review basic neuroanatomy as well as physiology of the brain. A background in basic neural science is required.

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
Coursework: 1 paper
Description: The objective of this course is to introduce students to the field of neurochemistry. Topics covered range from study of neurochemical mechanisms that underlie normal neural function to discussion of behavioral disturbances that result from neurochemical abnormalities. Three-quarters of the course focus on cellular and molecular neurochemistry. In the last part of the course these topics are presented in the context of specific functional issues: For example, neurochemical mechanisms of adaptive behavior, learning and memory, behavioral disorders, gender differences, and drug seeking behavior. Three in-class exams are given that emphasize the use of factual knowledge in problem-solving and data analysis. The last section of the course is covered by a take-home, essay exam. Recommended preparation for the course: An in-depth understanding of neural structure and function as can be attained by taking Basic Neurobiology (BCS 240/NSC201) plus a basic understanding of the biochemistry of cellular function as attained in a cell biology course or an introductory biochemistry course.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 246
Title: The Biology of Mental Disorders
Cross-listed: PSY 246 **Class Size:** 25
Prerequisites: BCS 110, NSC 201 (BCS 240) or equivalent background.
Exams: Two mid-terms and a final.
Description: This course will begin with a historical review of the definition of psychiatric syndromes, bringing students up-to-date with the reliable diagnostic categorization introduced by the Diagnostic and Statistical Manual of Mental Disorders in 1980. Following this, there will be an overview of brain organization, focusing on the neocortex, the limbic system, and neurotransmitter systems involved in "state" functions. This section of the course will provide a foundation and rationale for the integration of biological findings and clinical symptomatology of specific syndromes to be discussed later. The course will also deal with theoretical models incorporating these findings. The third part of the course will review some research approaches used to explore the neurobiology of psychiatric syndromes. Although these approaches cannot be described in depth, students will be introduced to epidemiologic, phenomenologic, family/adoption, longitudinal descriptive, psychophysiologic, neuropharmacologic, genetic linkage, and post-mortem studies; emphasis will be placed on recent in vivo brain imaging and neuroreceptor studies. With this as background, the course will review the best established findings linking specific neurobiological changes to anxiety/phobic conditions, mood disorders, and chronic psychotic states, particularly schizophrenia. If time permits, there will also be an exploration of the neurobiology of "normal" temperament, attention deficit disorder (ADD), and personality disorders. This course assumes familiarity with the basic structure and function of the nervous system. Students with this background obtained through courses other than the prerequisite may consult the instructor for permission to enroll.

Department: Brain & Cognitive Sciences
Course: BCS 250
Title: Cognitive & Perceptual Development
Cross-listed: PSY 250 **Class Size:** 20
Prerequisites: BCS 110 or BCS 111 AND BCS/PSY 172, or equivalent background.
Description: Advanced treatment of fundamental and recent findings in the development of human and animal sensory, motor, perceptual, and cognitive systems. Topics include visual and auditory development in human and non-human infants, the development of motor skills such as reaching and locomotion, the development of knowledge about the physical world, and the development of reasoning and inference.

Department: Brain & Cognitive Sciences
Course: BCS 310
Title: Senior Seminar
Instructor: Makous, W. **Class Size:** 10
Prerequisites: Declared BCS concentrators, senior status.
Restrictions: Open only to seniors or by permission of instructor
Exams: No exams. Papers and presentations.
Coursework: Seminar format.
Description: A 2-credit course that must be taken in the senior year by all BCS majors who do not enter the Honors Program. (Students in the Honors program take BCS 311 instead.) The main purpose of the course is to provide students with experience reading, evaluating, and discussing primary research papers. Each student chooses a topic of particular interest, familiarizes him or herself with the topic, chooses a classic paper for the entire class to read, and leads a discussion of the paper. Members of the class come prepared to discuss a set of questions provided at the time the article is assigned, such as: What was the question addressed? What was the method? What was observed? What is the main conclusion, the logic behind it, and the assumptions on which it depends; is it convincing? What was new or important about the paper? What are the broad implications? Finally, the student writes an evaluation of the paper as though providing peer review for a journal. Students' grades depend on performance as leaders, as discussants, and as authors of reviews, in equal parts.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 389
Title: Vision Science Research & Colloquium
Cross-listed: CVS 389 **Class Size:** 10
Description: 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, post-docs, and faculty. Students also complete a paper on a vision-related topic.

Chemistry

Department: Chemistry
Course: CHM 103
Title: Chemical Concepts, Systems and Practices I
Instructor: Jones, W. **Class Size:** 350
Prerequisites: High school Chem., Trig. & Analytical Geometry. Students with Math SAT scores of 620 or more may enroll in CHM 105.
Exams: 3 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 prospective. The topics covered include stoichiometry and the atomic basis of matter, properties of gases, liquids, and solids, chemical equilibrium, acids and bases, solubility equilibria, oxidation-reduction reactions, and chemical thermodynamics. There are two 75 minute lectures and one recitation per week. In addition, there is a three-hour laboratory and a 50 minute laboratory lecture. The lab lecture and lab sections are taken on alternate weeks. Recitations and labs will be assigned in the main section. Students receiving a grade of B- or better are encouraged to register for the honors course, CHM 106, for the second course in Chemical Concepts, Systems and Practices.

Department: Chemistry
Course: CHM 105
Title: Chemical Concepts, Systems and Practices IH
Instructor: Turner, D. **Class Size:** 300
Prerequisites: High school Chem., Trig. & Analytical Geometry
Exams: 3 Exams and a Final
Description: This is an accelerated version of Chemistry 103, covering the same topics as that course, but in greater depth. Recommended prerequisites include high school AP Chemistry or Math SAT score of 620 or higher. There are two 75 minute lectures per week. Recitations, lab lecture and a three-hour laboratory meet weekly. Recitations and labs will be assigned in the main section.

Department: Chemistry
Course: CHM 203
Title: Organic Chemistry I
Instructor: Kampmeier, J. **Class Size:** 300
Prerequisites: CHM 103/CHM 105 and CHM 104/CHM 106 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 ~8 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 205
Title: Organic Chemistry I (Honors)
Instructor: Goodman, J. **Class Size:** 70
Prerequisites: CHM 103/CHM 105 and CHM 104/CHM 106 or the equivalent
Exams: Four 1-hour exams, four 15 minute quizzes, and Final
Description: An introduction to organic chemistry that focuses on chemical bonding, structure and stereochemistry, reactions and reaction mechanisms of organic compounds. This is an honors level version of CHM 203 with a more intense treatment of the concepts presented. The course is recommended for students planning advanced work in chemistry and related sciences. There are two 75-minute lectures and one recitation per week. Coregistration in CHM 209 is required.

Chemistry

Department: Chemistry
Course: CHM 207
Title: Organic Chemistry I Laboratory
Instructor: Boeckman, R. **Class Size:** 350
Prerequisites: Co-registration in CHM 203.
Exams: Several lab quizzes during lecture.
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 209
Title: Organic Chemistry II Laboratory
Instructor: Goodman, J. **Class Size:** 50
Prerequisites: Co-registration in CHM 205.
Exams: Quizzes at the beginning of the laboratory period; two 1-hour exams.
Description: Modern laboratory techniques utilized. Recommended for chemistry majors and anyone planning advanced work in chemically related sciences. The laboratory meets for two laboratory periods per week.

Department: Chemistry
Course: CHM 211
Title: Inorganic Chemistry **Class Size:** 45
Prerequisites: Organic Chemistry
Exams: Two 1-hour exams and Final.
Description: The chemistry of the elements will be discussed with emphasis on the structures reactions of inorganic systems including transition metal complexes. Weekly, lecture meets three times a week, 50 minutes each.

Department: Chemistry
Course: CHM 231
Title: Chemical Instrumentation
Instructor: Kreilick, R.
Exams: One 1-hour exam and a final exam, laboratory work.
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.

Department: Chemistry
Course: CHM 251
Title: Physical Chemistry I **Class Size:** 60
Instructor: Farrar, J.
Prerequisites: CHM 251
Exams: Two 1-hour exams and Final.
Description: This course is an introduction to quantum mechanics with applications to spectroscopy and to atomic and molecular structure. A short section on the kinetic theory of gases is included at the end of the course. There are weekly problem sets and at least one more substantial project.

Department: Chemistry
Course: CHM 411
Title: Advanced Inorganic Chemistry I **Class Size:** 30
Instructor: Bren, K.
Exams: Midterm/Final
Description: A comprehensive overview of the basic structures, bonding, and reactivity of the elements and their common compounds are presented. Particular emphasis is placed on transition metal compounds, including organometallic chemistry and on chemistry of the solid state.

Department: Chemistry
Course: CHM 433
Title: Advanced Physical Organic Chemistry I **Class Size:** 20
Instructor: Kool, E.
Prerequisites: CHM 251- CHM 252
Exams: Two 1-hour exams and a final.
Description: A survey of reaction mechanisms and reactive intermediates in organic chemistry. Applications of qualitative molecular orbital theory are emphasized.

Chemistry

Department: Chemistry
Course: CHM 435
Title: Organic Reactions
Instructor: Miller, B. **Class Size:** 20
Prerequisites: One year of college Organic Chemistry.
Exams: Two 1-hour exams and a final.
Description: A survey of reactions of organic compounds with emphasis on those with practical synthetic utility, including alkene synthesis, carbonyl condensations and ring-forming reactions. Mechanism, scope and limitations and stereochemical issues will be discussed. A sound background in college organic chemistry, including a good knowledge of reaction mechanisms, will be assumed as a prerequisite. There are two 75-minute lectures per week with extensive reading assignments from original literature articles in addition to 5-6 problem sets.

Department: Chemistry
Course: CHM 437
Title: Bioorganic Chemistry
Instructor: Kool, E. **Class Size:** 20
Description: Principles involved in design of organic molecules for recognition and catalysis in biological systems. Molecular shapes and conformations; noncovalent bonding; catalysis; drug design principles. Hands-on computer molecular modeling.

Department: Chemistry
Course: CHM 451
Title: Quantum Chemistry I
Instructor: Kreilick, R. **Class Size:** 20
Prerequisites: CHM 251/CHM 252
Exams: 2 exams and final
Coursework: Weekly homework assignments are graded.
Description: Basic quantum chemistry, Schroedinger equation, basic postulates of quantum mechanics, angular momentum, perturbation theory, and Ab Initio Molecular-Orbital Theory.

Department: Chemistry
Course: CHM 455
Title: Thermodynamics and Statistical Mechanics
Instructor: Schroder, U. **Class Size:** 15
Prerequisites: CHM 251 or equivalent
Exams: Midterm/Final
Coursework: Weekly homework assignments are graded.
Description: Topics: Basic concepts of equilibrium statistical mechanics; the canonical, grand canonical and microcanonical ensembles, fluctuations; Fermi-Dirac and Bose-Einstein statistics; applications to ideal monoatomic and diatomic gases; imperfect gases and liquids; classical and quantum mechanical density matrix. Two 75 minute class periods per week.

Department: Chemistry
Course: CHM 459
Title: Principles of Nonlinear Optical Spectroscopy
Instructor: Mukamel, S. **Class Size:** 15
Exams: 1 midterm and a final
Coursework: Term Paper and biweekly homework assignments.
Description: This course will cover a broad range of optical spectroscopic techniques and will focus on theoretical methods for their microscopic interpretation. A general correlation function methodology for analyzing nonlinear optical experiments in terms of molecular dynamics and relaxation processes will be developed. The relationships among ultrafast (time-domain) and frequency-domain techniques will be discussed. Applications will be made to fluorescence and Raman spectroscopy, three and four wave mixing, photon echo, hole burning and transient gratings in the gas phase and in condensed phases. Optical materials and nanostructures will be discussed.

Clinical & Social Sciences in Psychology

Department: Clinical & Social Sciences in Psychology
Course: CSP 161
Title: Introduction to Social Psychology
Cross-listed: PSY 161
Instructor: Reis, H. **Class Size:** 225
Prerequisites: PSY 101
Exams: 3 exams, two-page paper/five-page paper - optional
Description: How do people contend with the social world in which they live? That is the fundamental question of Social Psychology. This course provides an overview and introduction to the fascinating research and theorizing in modern Social Psychology. Topics will include the self, attitudes, social cognition, emotion, personal and social relationships, interpersonal attraction, helping, social influence, and behaviors in groups. Format is lecture method, liberally augmented with discussions, presentations, films, demonstrations, and experimental applications.

Department: Clinical & Social Sciences in Psychology
Course: CSP 181
Title: Psychology of Personality
Cross-listed: PSY 181
Instructor: Elliot, A. **Class Size:** 200
Description: This course presents the basic concepts and principles of the major modern personality theories. Starting with an overview of the philosophical assumptions which have organized various schools of thought in psychology, the evolution of current conceptions of personality and behavior change are explored. The theoretical perspectives covered include psychoanalytic, ego-analytic, behavioral, humanistic and social-cognitive. Each of these perspectives will be evaluated on conceptual and empirical grounds. The class will be in lecture format.

Department: Clinical & Social Sciences in Psychology
Course: CSP 211
Title: Introduction to Statistical Methods in Psychology
Cross-listed: PSY 211
Description: Description and analysis of data in psychological research. Topics include correlations, t-tests, and analysis of variance. Computer usage.

Department: Clinical & Social Sciences in Psychology
Course: CSP 219W
Title: Research Methods in Psychology
Cross-listed: PSY 219W **Class Size:** 50
Prerequisites: PSY 101
Exams: Final
Coursework: Lab reports
Description: This is a laboratory course designed to teach principles of experimental design in Psychology. Students will learn how to plan, conduct and analyze various types of statistics. They will then complete an independent project. Fulfills writing requirement.

Department: Clinical & Social Sciences in Psychology
Course: CSP 264
Title: Industrial/Organizational Psychology
Cross-listed: PSY 264/NAV 264
Instructor: Navor, D. **Class Size:** 150
Exams: Three
Description: Applications of psychological findings and methods to business and industry. Topics include personnel selection, training, and appraisal; organizational structure; motivation and satisfaction; leadership; labor relations; and civil rights legislation.

Department: Clinical & Social Sciences in Psychology
Course: CSP 266
Title: Research Laboratory in Social Psychology
Cross-listed: PSY 266
Instructor: Zuckerman, M. **Class Size:** 20
Restrictions: Permission of Instructor
Description: In the first part of the course, we will read and discuss a Research Methods textbook. In the second part, students will conduct actual research. This would require the participants to read relevant literature, collect data, analyze the findings, and write a paper. Grades are based on quality of overall performance and quality of the paper.

Clinical & Social Sciences in Psychology

Department: Clinical & Social Sciences in Psychology
Course: CSP 271
Title: Social and Emotional Development
Cross-listed: PSY 271
Description: The course will examine the entire life-span, and focus on the cognitive, interpersonal, and environmental factors which influence peoples' adjustment.

Department: Clinical & Social Sciences in Psychology
Course: CSP 283
Title: Behavioral Medicine
Cross-listed: PSY 283 **Class Size:** 200
Prerequisites: PSY 101
Restrictions: Not open to freshmen
Exams: Two exams
Description: An overview of the application of behavior/lifestyle change approaches to the treatment of medical disorders, and the examination of interfaces between behavior and physiology. Topics include stress, cardiovascular risk factors, chronic pain, and cancer.

Department: Clinical & Social Sciences in Psychology
Course: CSP 301
Title: Teaching Psychology
Cross-listed: PSY 301
Instructor: McAdam, D.
Prerequisites: PSY 101
Restrictions: Permission of Instructor
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 310
Title: Honors Research I
Cross-listed: PSY 310
Restrictions: Permission of Instructor
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.

Department: Clinical & Social Sciences in Psychology
Course: CSP 360
Title: Gender and Psychoanalytic Theory
Cross-listed: PSY 360
Instructor: Scharfe, E. **Class Size:** 15
Restrictions: Permission of Instructor
Description: This course will examine several feminist psychoanalytic theories in an attempt to understand human development from a feminist perspective. In particular, the course will explore human development in the context of the parent-child relationship, and feminist ideas concerning the benefits of changing the stereotypic gender roles in the family

Department: Clinical & Social Sciences in Psychology
Course: CSP 368W
Title: Seminar in Humanistic Psychology
Cross-listed: PSY 368W
Instructor: Deci, E. **Class Size:** 20
Restrictions: Permission of Instructor
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.

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
Description: This course is designed to give students first-hand experience of Social Psychology research. Areas such as research methods and design are explored.

Clinical & Social Sciences in Psychology

Department: Clinical & Social Sciences in Psychology
Course: CSP 388
Title: Practicum Seminar on Research in Child & Family Developmental Psychopathology
Cross-listed: PSY 388
Instructor: Toth, S. & Lynch, M. **Class Size:** 12
Restrictions: Permission of Instructor Not open to freshmen
Description: This course will explore patterns of development in high-risk children and families. Students will be given experience doing research on a variety of problems in the field of child and family developmental psychopathology. Students work 7 hours per week outside the classroom doing a variety of supervised research on children and families, and participating in assigned research projects. In the second- semester, students prepare and present a mock research proposal of their own design. This is a two-semester course.

Cognitive Science

Department: Cognitive Science
Course: COG 101
Title: Foundations of Cognitive Science
Cross-listed: BCS 111 **Class Size:** 75-100
Prerequisites: Cog Sci majors should take COG 101 in the Spring. Fall section is suggested for upperclass students.
Description: This course introduces students to the idea that cognition is computation, and that cognitive processing is information processing. In this way, the disciplines of cognitive psychology, linguistics, neuroscience, and artificial intelligence share a common goal and mutually inform one another. The first of 4 parts of the course is a review of the two major approaches to the study of cognition. The classical approach, with its roots in computer science, asserts that the mind and the brain can be studied independently. In contrast, a newer approach views the mind and brain as intimately related in the sense that brain structure and organization influence cognitive processing. The 3 remaining parts of the course review the study of visual perception, language processing, and learning from each of these two viewpoints.

Department: Cognitive Science
Course: COG 102
Title: Intro to Linguistics
Cross-listed: LIN 201
Description: See LIN 201 for description.

Class Size: 15

Department: Cognitive Science
Course: COG 110
Title: Introductory Logic
Cross-listed: PHL 110
Instructor: Sider, T.
Description: See PHL 110 for description.

Department: Cognitive Science
Course: COG 141
Title: Neural Foundations of Behavior
Cross-listed: BCS 110/PSY 110/CVS 110
Instructor: Lennie, P.
Description: See BCS 110 for description

Department: Cognitive Science
Course: COG 151
Title: Perception and Action
Cross-listed: BCS 151/PSY 151/CVS 151
Exams: 2 Exams and Final
Description: See BCS 151 for description.

Class Size: 240

Department: Cognitive Science
Course: COG 162
Title: Understanding Reading
Cross-listed: BCS 162/LIN 162/PSY 162
Instructor: Tanenhaus, M.
Description: See BCS 162 for the description. formerly BCS 130/COG 130.

Department: Cognitive Science
Course: COG 220
Title: Data Structures
Cross-listed: CSC 172
Prerequisites: CSC 171
Description: See CSC 172 course description

Cognitive Science

Department: Cognitive Science
Course: COG 240
Title: The Computational Brain
Cross-listed: CSC 240
Instructor: Ballard, D.
Prerequisites: PHL 110 & CSC 172
Description: See CSC 240 for the description.

Department: Cognitive Science
Course: COG 244
Title: Philosophy of Mind
Cross-listed: PHL 244
Instructor: Braun, D.
Description: See PHL 244 for the description. This course was previously known as COG 254/PHL 254 Philosophy of Psychology.

Department: Cognitive Science
Course: COG 260
Title: Psychology of Language
Cross-listed: BCS 260/LIN217/PSY 260
Instructor: Supalla, T. **Class Size:** 30-40
Description: See BCS 260 for the description. This course was formerly COG 201/Psychology of Language.

Computer Science

Department: Computer Science
Course: CSC 108
Title: Introduction to Computers
Instructor: Martin, N. **Class Size:** 260
Description: Computers are changing the way we work, live and think. Whether or not you use them, computers are likely to touch your life. CSC 108 is intended to give those who are not going to major in computer science the knowledge to deal with computers. This course will teach you how to operate some of the programs you may use in your jobs. It will also introduce you to the terminology that surrounds computers and some of the issues that surround their interactions with humans and impact on society. Finally, it will give you a feeling for the way the computer, an alien intelligence, thinks. The class includes both lectures and labs. In the labs, you will learn to use a computer.

Department: Computer Science
Course: CSC 172
Title: Data Structures
Cross-listed: COG 220
Instructor: Nelson, R. **Class Size:** 75
Prerequisites: CSC 171 or equivalent
Description: Representing data for computer manipulations (e.g., trees, lists, sets, stacks, and queues) in high-level language (C++). Analysis of the running times of programs operating on such data structures, and basic techniques for program design, analysis, and proof of correctness (e.g., induction and recursion).

Department: Computer Science
Course: CSC 200
Title: Undergraduate Problem Seminar
Instructor: Hemaspaandra, L. **Class Size:** 15
Prerequisites: All pre-major requirements.
Description: Broad introduction to the science and culture of computing. Overview of the subdisciplines and the research of the University of Rochester's computer science faculty. Cooperative problem solving. Required for the B.S. in Computer Science; optional for the B.A. Should be taken in the term following CSC 173.

Department: Computer Science
Course: CSC 240
Title: The Computational Brain
Cross-listed: COG 240 and BCS 230
Instructor: Ballard, D. **Class Size:** 15
Prerequisites: PHL 110 & CSC 172
Description: This course describes computational models of intelligent behavior and how they relate to structures in the brain. Cognitive Science majors may substitute prior or concurrent COG 241 for the CSC 172 prerequisite.

Computer Science

Department: Computer Science
Course: CSC 244
Title: Logical Foundations of Artificial Intelligence
Cross-listed: CSC 444
Instructor: Schubert, L. **Class Size:** 15
Prerequisites: CSC 242
Description: An introduction to the logical foundations of AI including first-order logic, search, knowledge representation, planning, and probability and decision theory. Meets jointly with CSC 444, a graduate-level course that requires additional readings and assignments.

Department: Computer Science
Course: CSC 249
Title: Sensory Motor Systems
Cross-listed: CSC 449, BCS 236, and BCS 536
Instructor: Brown, C. **Class Size:** 5
Prerequisites: CSC 242
Description: Introduction to computer vision, including model-based vision, projective invariance, Hough transforms, pattern recognition and neural nets, color theory, texture, and optic flow. Meets jointly with CSC 449, a graduate-level course that requires additional readings and assignments. (May not be offered every year.)

Department: Computer Science
Course: CSC 254
Title: Programming Systems
Cross-listed: CSC 454
Instructor: Scott, M. **Class Size:** 5
Prerequisites: CSC 252
Coursework: Course projects include the modification and enhancement of a working compiler.
Description: Design and implementation of programming languages, with an emphasis on how design and implementation influence one another. Topics to be covered include: fundamental language concepts (names, values, types, abstraction, control flow, referencing environments); major language paradigms (imperative functional logic, object-oriented); compilation and interpretation; low-level implementation of high-level constructs; programming environments and tools. Meets jointly with CSC 454, a graduate-level course that requires additional readings and assignments.

Department: Computer Science
Course: CSC 258
Title: Advanced Systems
Cross-listed: CSC 458
Instructor: Li, W. **Class Size:** 5
Prerequisites: CSC 254, CSC 256
Restrictions: Permission of Instructor
Description: Advanced material in computer architecture, programming languages, and operating systems, with an emphasis on parallel systems. Syllabus may vary with instructor; typical topics include: multiprocessor architecture and programming, debugging and performance analysis, locality management, parallel languages, parallelizing compilers, real-time and fault-tolerant systems, scalability, and scheduling. Meets jointly with CSC 458, a graduate-level course that requires additional readings and assignments. (May not be offered every year.)

Department: Computer Science
Course: CSC 280
Title: Computer Models and Limitations
Instructor: Seiferas, J. **Class Size:** 15
Prerequisites: MTH 161, CSC 173
Description: This course studies fundamental computer models and their computational limitations. Finite-state machines and pumping lemmas, the Chomsky hierarchy, Turing machines and algorithmic universality, noncomputability and undecidability, tradeoffs between power and formal tractability.

Department: Computer Science
Course: CSC 284
Title: Parallel Algorithms
Cross-listed: CSC 484
Instructor: Ogihara, M. **Class Size:** 5
Prerequisites: CSC 280 or CSC 282
Description: This course studies the key techniques for designing parallel algorithms. Parallel computer models, parallel graph algorithms, parallel matrix algorithms, parallel sorting algorithms, parallel geometric algorithms, and other parallel algorithms. Meets jointly with CSC 484, a graduate-level course that requires additional readings and assignments.

Computer Science

Department: Computer Science
Course: CSC 290
Title: Topics in Computer Science: Computer Networks
Instructor: Dwarkadas, S. **Class Size:** 20
Prerequisites: CSC 252
Description: Introduction to computer networks and computer communication. 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.

Dance

Department: Dance
Course: DAN 171
Title: Introductory Ballet
Instructor: Leverich, V. **Class Size:** 20
Description: This course introduces the basic movements and fundamentals of classical dance with an emphasis on principles of alignment and laying the groundwork for the musicality of the ballet lesson. DAN 175 or some previous dance training required, though not necessarily in ballet.

Department: Dance
Course: DAN 175
Title: Fundamentals of Movement
Instructor: Leverich, V. **Class Size:** 20
Description: This is the course to start with if you have never taken a dance class before. It explores movement through technique and improvisation. It emphasizes spontaneity, joy in moving and self-awareness, and is based on the fundamental movement patterns of skipping, walking, running, leaping, etc. With its focus on centering and coordination, it provides a strong foundation for further study in dance, theater, or sports. No previous dance training required.

Department: Dance
Course: DAN 271
Title: Intermediate Ballet
Instructor: Hanson, K. **Class Size:** 20
Prerequisites: Two semesters of DAN 171 or substantial previous ballet
Description: This course is intended for students with substantial prior ballet training. It includes barre work, center work, and adagio and allegro combinations. Students will be evaluated on the basis of their progress, mastery of the fundamental steps of ballet, and effort as measured by attendance.

Department: Dance
Course: DAN 275
Title: Modern Dance Technique
Instructor: Hook, J. **Class Size:** 20
Prerequisites: Two terms of DAN 175 or equivalent course work
Description: Most of the choreographers in the 20th century have their foundations in modern dance, such as Alvin Ailey, Merce Cunningham, Isadora Duncan, Garth Fagan, Bill T. Jones, Martha Graham, Mark Morris, Alwin Nikolais, and Twyla Tharp. The course emphasizes practice in personal skills (mobilizing weight, articulating joints, finding center, increasing range, and incorporating strength) and movement expressivity (phrasing, dynamics, and rhythmic activity). A strong emphasis is placed on developing musicality in movement.

Department: Dance
Course: DAN 285
Title: Traditional African Dance
Instructor: Oula, Z. **Class Size:** 20
Description: This course will focus on authentic African Dance: weaving together its history, culture, and anthropological meanings. We will use the oral language of the Griot/Storyteller to explore African chants and songs, analyze the connecting links of African art forms to modern and jazz dance, and emphasize educational and cross-cultural understanding.

Dance

Department: Dance
Course: DAN 360
Title: Contact Improvisation
Instructor: Hook, J. **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 361
Title: Contact Improvisation
Instructor: Hook, J. **Class Size:** 12
Description: A continuation of DAN 360 that is taught concurrently with the introductory course. Students in DAN 361 will gain a deeper experiential and intellectual knowledge of contact by exploring issues in more depth. Work includes both more advanced development with other 361 students, and the experience of helping teach the 360 students the basic principles of contact.

Department: Dance
Course: DAN 375
Title: Improvisation and Performance
Instructor: Hook, J.
Description: Students will create and stage small episodes of dance, music and theater, where the movement materials will be generated through improvisation. We will use movement, music, voice and text to create a personal theatrical language that explores issues of identity and society. Throughout the term, guest artists from various disciplines will teach sections of the course. We will also explore improvisation and performance by viewing and discussing videotapes and live performances of dance, music and theater. Students should have some prior experience in at least one area involved: dance, music or theater. This is a four credit course.

Department: Dance
Course: DAN 380
Title: Movement Theories and Alignment
Cross-listed: CAS 380W/ENG 380/ENG 380W
Instructor: Hook, J. **Class Size:** 20
Description: This course explores the techniques developed by Alexander, Todd, Sweigard, Bonnie Bainbridge-Cohen and other movement theorists. It involves an in-depth study of the mind-body relation, focusing on finding connections between the inner physical worlds and the external environment, and allowing sensation to guide our movement choices. It covers the skeletal and muscular system and how it supports the body. This course is of value for anyone involved in performance or sports, as well as those who want to develop a greater awareness of their body movement and posture. DAN 380 is a four credit class and can be taken as an upper-level writing course. No previous dance training required.

Department: Dance
Course: DAN 381
Title: Movement Theories and Alignment II
Instructor: Hook, J.
Description: This course is a continuation of DAN 380 and is taught concurrently with the introductory course. It allows the student to further assimilate the studio work introduced in DAN 380, involves more in-depth readings, and requires the student to complete a substantial term paper. A four credit class.

Earth & Environmental Sciences

Department: Earth & Environmental Sciences
Course: EES 101
Title: Introduction to Physical Geology
Instructor: Tarduno, J. **Class Size:** 120
Exams: Two 1 hour exams, one final exam
Coursework: Voluntary 2-day field trip to the Adirondack Mountains and required local field trips are available for course participants. Class exams are given on Tuesday nights, as are review sessions and recitations.

Description: This introductory geology class provides a broad overview of the Earth Sciences including the origin, composition and structure of the Earth's interior and surface. The 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. The class consists of (3) 50 minute lectures and a laboratory section each week. The principal text is "Earth" by Press and Siever. A basic introduction to the geological processes is supplemented with an emphasis on modern studies in marine geology, plate tectonics and climate change. The course also aims to provide students with a geological background with which they can better evaluate current environmental issues, including potential global warming.

Department: Earth & Environmental Sciences
Course: EES 207
Title: Principles of Invertebrate Paleontology
Instructor: Brett, C. **Class Size:** 60
Prerequisites: EES 201 or permission of the instructor
Exams: Three hourly class exams; 2 lab exams
Description: This course is designed to introduce the basic principles of paleontology with a concentration on invertebrate fossils. Topics to be covered include: taphonomy (preservation), trace fossils, paleoecology and the principles of the evolution as evidenced by the fossil record. Lab exercises and the lectures will also cover the classification, morphology and the groups. Offered alternate fall semesters. Next offering Fall 1997.

Department: Earth & Environmental Sciences
Course: EES 208
Title: Structural Geology
Instructor: Mitra, G. **Class Size:** 40
Prerequisites: EES 101/ EES 201 or permission of the instructor
Exams: Three exams. Weekly lab assignments. One weekend field trip.
Description: Recognition and interpretation of geologic structures. Topics include geometric analysis of faults, folds, joints, and rock fabrics; an introduction to stress analysis and finite strain analysis, theories of brittle failure and ductile deformation. Laboratory concerned with structural analysis.

Department: Earth & Environmental Sciences
Course: EES 215
Title: Environmental Geophysics
Instructor: Fehn, U. **Class Size:** 60
Prerequisites: EES 101/MTH 141
Exams: Two tests, final.
Coursework: Weekly homework sets
Description: Physical processes at the surface of the Earth. Sources of energy: solar energy, radioactive heat generation: heat conduction and convection. Dynamics of the crust: earthquakes and propagation of seismic waves; plate tectonics. Movement of fluids in the oceans, rivers and crust; physics of the atmospheric movements. Influence of human activities on the physical processes at the surface of the Earth. Interaction between lithosphere, hydrosphere and atmosphere will be investigated in examples such as the Greenhouse effect, El Nino and Ice Ages.

Department: Earth & Environmental Sciences
Course: EES 230
Title: Hydrogeology
Instructor: Goodman, Wm. **Class Size:** 60
Prerequisites: EES 101, Calculus and Chemistry, or permission
Description: Introduction to the physical and theoretical principles that govern the movement and quality of water in the Earth's subsurface.

Earth & Environmental Sciences

Department: Earth & Environmental Sciences
Course: EES 240
Title: Optical Mineralogy and Petrology
Cross-listed: EES 440
Instructor: Basu, A. **Class Size:** 30
Prerequisites: EES 204 or permission of the instructor
Exams: Two 1-hour exams, one final exam
Description: Behavior of light through crystals; use of polarizing microscope; identification of major rock-forming minerals in thin sections by their optical properties. Petrographic description and identification of major rock types under the microscope. Two lectures and one laboratory meeting each week.

Department: Earth & Environmental Sciences
Course: EES 270
Title: Vertebrate Evolution
Cross-listed: EES 470
Instructor: Brett, C. **Class Size:** 60
Prerequisites: EES 201 or BIO 125 or permission of the instructor
Exams: Two exams
Description: A survey of the fossil record of vertebrate animals. Topics will include: Classification of vertebrates, introductory osteology, origin of the vertebrate classes, transition to land, origin of flight, hot-blooded/cold-blooded dinosaur controversy, mammalian radiation, as well as tracing the origin and evolution of the important vertebrate orders. Reading assignments will be from Colbert's Vertebrate Evolution. Exams will be based upon the lectures. Offered alternate fall semesters.

Department: Earth & Environmental Sciences
Course: EES 360
Title: Environmental Geology in the Field and Lab
Instructor: Poreda, R. **Class Size:** 15
Prerequisites: CHM 103/CHM 104/MTH 161/EES 230/EES 247 or permission of the instructor.
Description: This course emphasizes commonly employed methods of obtaining critical geotechnical geochemical and hydrogeologic data for environmental studies. The course involves one day of lecture/lab per week and a half day field trip every other week on average. Field trips involve visits to drilling sites, geotechnical and analytical laboratories, and an experimental field station where tests on monitoring wells can be performed. Students will be required to develop a written site investigation plan incorporating testing procedures learned in lectures. In addition to this investigation plan, class performance is based upon a final examination.

Economics

Department: Economics
Course: ECO 108
Title: Principles of Economics
Instructor: Stockman, A.
Exams: 2 Midterms, 1 Final
Description: This course gives a self-contained overview of economics and provides a foundation for studying further in micro and macroeconomics. We see how, confronted with challenges and opportunities, 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 how do all these individual choices come together. In particular, how does a market-oriented economy coordinate all these choices made by all these people. 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, who gets the good, and for what purposes. 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, producers polluting, or sellers spreading false advertising; 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 macroeconomics. These include the sources of economic growth, business cycles, and the impact of government spending, taxing, and borrowing on the performance of the aggregate economy.

Department: Economics
Course: ECO 191Q
Title: Economics Way of Thinking
Instructor: Landsburg, S. **Class Size:** 20
Restrictions: Open to freshmen only
Description: This is a small seminar open only to freshmen. No prior knowledge of economics is required. Students will use ideas from economics to explore questions about human behavior, the role of government, the difference between right and wrong, and the nature of justice.

Department: Economics
Course: ECO 207
Title: Intermediate Microeconomics
Instructor: Landsburg, S. **Class Size:** 125
Prerequisites: ECO 108 recommended
Exams: 2 Midterms, 1 Final
Coursework: Homework
Description: This course develops the basic tools of microeconomics: supply and demand, indifference curves and budget lines of the consumer, and the cost curves firm.

Department: Economics
Course: ECO 209
Title: Intermediate Macroeconomics
Instructor: Kahn, J.
Prerequisites: ECO 207
Exams: 2 Midterms, 1 Final
Description: ECO 209 is an intermediate course in macroeconomics. The course analyzes basic models of income determination which attempt to explain how the price level, the interest rate and the level of output and employment are determined. Monetary and fiscal policies are discussed within the framework of these models, and competing theories are compared.

Department: Economics
Course: ECO 211
Title: Money, Credit and Banking
Instructor: Alonso, I. **Class Size:** 100
Prerequisites: ECO 207 (or permission of instructor)
Exams: 2 Midterms, Final
Description: This course is devoted to the study of topics in money and banking. Topics covered include the determinants and causes of inflation, monetary policy, credit and capital markets, liquidity and financial intermediation, and federal regulation of the banking system.

Economics

Department: Economics
Course: ECO 216
Title: Financial Markets: Concepts and Institutions
Instructor: Rebelo, S. **Class Size:** 75
Prerequisites: ECO 207
Exams: Midterm, Final, and Assignments.
Description: This class is the first of a two-semester sequence intended to give students an understanding of the basic elements of finance. Various financial markets and instruments are considered, including the stock market, bond markets and commodity markets. The concepts of risk, return, and diversification are introduced. Examined are asset pricing theories (and evidence) and the efficiency of capital markets. Other topics include the risk and term structures of interest rates.

Department: Economics
Course: ECO 220
Title: Fair Allocation
Instructor: Thomson, W. **Class Size:** 30
Prerequisites: ECO 207
Description: Although efficiency issues mainly occupy economists' attention, it is often issues of economic justice that concern the general public. We will show that economists have much to bring to this debate by examining a number of issues where equity concerns are paramount. For example: What is fair taxation and what is fair political representation? How should we divide the assets of a bankrupt firm among creditors or an estate among heirs? How should the output of a firm be divided among management and labor, and how should the share received by labor be divided among the workers if they have contributed different hours and have different skills? How should the cost of NATO be apportioned among the member nations and how should outer space be divided?

Department: Economics
Course: ECO 224
Title: Economics of Sports and Entertainment
Cross-listed: HIS 256
Instructor: Engerman, S.
Prerequisites: ECO 207 (useful)
Exams: Several quizzes, Midterm, Final, Paper possible
Description: This course will be primarily lectures dealing with the economics of the sports and entertainment industries. Topics covered will include salary determination, exploitation and discrimination, franchise valuation, and systems of labor control. Readings will be from books, economic journals, and more popular magazines and newspapers.

Department: Economics
Course: ECO 229
Title: Monetary Theory
Instructor: Krusell, P. **Class Size:** 30
Prerequisites: ECO 207/ECO 209
Description: This course consists of topics in monetary theory and history. In previous semesters, the course has been either a unified course in macroeconomic theory or a course in financial history and institutions.

Department: Economics
Course: ECO 231
Title: Econometrics
Instructor: Leung, S.
Prerequisites: ECO 207/STT 165/STT 201/STT 211/STT 212
Exams: 2 Midterms, Final
Description: Econometrics is the application of statistical methods to economic data. Accordingly, STT 165 or STT 201 are highly recommended. The course will cover the two-variable regression model, hypothesis testing, prediction, the multiple regression model and hypothesis testing, techniques for dealing with special problems of econometric models, and an introduction to the estimation of simultaneous equation systems. Homework problem sets emphasize applying the methods presented in class. Students will be instructed on how to use a simple regression program on the computer. No previous experience with computers is needed.

Economics

Department: Economics
Course: ECO 234
Title: Government Regulation of Industry
Instructor: Campbell, J. **Class Size:** 30
Prerequisites: ECO 108 & ECO 207
Exams: 2 Exams, 1 Midterm, Final exam
Description: Students will investigate how the federal and state governments in the United States regulate the structure and conduct of American industry, why they do so, and what their economic effects are. Government regulations affect nearly all economic activity, but we will focus on only two kinds of regulation. The first, the antitrust laws, govern how firms may structure themselves. The second, direct government regulation, takes place when a governmental body directly imposes its choices on firms.

Department: Economics
Course: ECO 252
Title: Economics & Societies of Latin America
Cross-listed: AAS 252/HIS 203
Instructor: Inikori, J. **Class Size:** 30
Description: Provides an historical explanation for the general problem of material poverty and the socio-political crises that characterize contemporary Latin American and the Caribbean.

Department: Economics
Course: ECO 261
Title: State and Local Finance
Cross-listed: PPA 461
Instructor: Wolkoff, M. **Class Size:** 30
Prerequisites: ECO 207
Exams: Midterm, Final
Description: This course is designed for students who are interested in state and local government finance. We will examine both expenditure and taxation issues and pay particular attention to the various policy options that our analysis suggest. Specific topics will include: intergovernmental fiscal relations, the political economy of metropolitan areas, the demand for public services, and the structure of taxation. The class will meet for two lecture/discussions a week. In addition to a midterm and final, there will be two homework assignments which will involve the collection and application of actual data. Students are expected to have successfully completed intermediate microeconomics; econometrics is not required but helpful. Applied memo exercises required for 400 credit (graduate students only).

Department: Economics
Course: ECO 265
Title: Law and Economics
Instructor: Oi, W. **Class Size:** 44
Prerequisites: ECO 207
Description: Topics will be selected from: the law and economics of property rights, contracts, product liability, torts and civil procedure, crimes and criminal procedure, government regulation of economic activity, economic analysis of choice under uncertainty and of alternative legal rules and legal systems, common law and constitutional protections of economic rights, and justice versus economic efficiency as the goal of law. In each area, the course will cover the history and development of law, including the economic arguments used by judges in interpreting law. The course will then use economic theory to examine the operation of the law. Both substantive law (such as constitutional provisions limiting the government's right to interfere with private contracts, or laws on capital punishment) and procedural law (such as the exclusionary rule limiting admissible evidence, or rules on class action suits) will be subjected to analysis.

Economics

Department: Economics
Course: ECO 269
Title: International Economics
Instructor: Jones, R. **Class Size:** 75
Prerequisites: ECO 207
Exams: 1 Hour exam, 1 final
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 385
Title: The Atlantic Slave Trade and Africa, 1650-1850
Cross-listed: AAS 375/HIS 356/HIS 456
Instructor: Inikori, J. **Class Size:** 20
Description: The course begins with a general view of the level of socio-economic development in Africa by the late 15th century, relative to the other major regions of the world at the time. It then proceeds to examine the total numbers of people directly exported from Africa by way of the Atlantic trade and the demographic effects on Africa. The effects of the "production" of captives for export on social and political structures, and the overall economic consequences of the trade in Africa are also examined. Atlantic slave trade retarded the development of capitalism in Africa between 1650 and 1850, and so creating the conditions for the imposition of European colonial domination on the continent from the late 19th century.

English

Department: English
Course: ENG 101
Title: English as a Second Language **Class Size:** 12
Description: This course is intended to improve the English of non-English speaking students to the necessary level for doing work at the University of Rochester. The course is required for students with minimal TOEFL scores. Work consists of practice in the speaking and writing of basic English.

Department: English
Course: ENG 102
Title: The English Language **Class Size:** 12
Restrictions: Permission of department required
Description: The study of English grammar and usage with some attention to the history and development of usage, to conventional modes of communication, and to issues in language. Some of the issues which may be discussed include changes in the language, bilingual education, obscenity, and "standard" English. Students will be expected to participate in discussions and to write a number of very short papers. This course is a humanities distribution course but does not fulfill the writing requirement; it may be useful preparation for English 103.

Department: English
Course: ENG 103
Title: Writing and Thinking **Class Size:** 15
Prerequisites: A minimum of 8-10 papers, including a research paper.
Restrictions: Permission of department required
Description: Students will examine closely the strategies of planning, developing, and writing a wide variety of essays in various fields. A selection reader will be studied for illustrative kinds of accomplished writing. Regular essays, varied in length, will be submitted for evaluation and revision. This course fulfills the College primary writing requirement.

Department: English
Course: ENG 104
Title: Fiction and Realities **Class Size:** 20
Restrictions: Permission of department required
Exams: Quizzes at discretion of instructor. Three-hour final exam.
Description: The study and practice of rhetorical methods used in analyzing a variety of literary modes, primarily fictive. The student will write essays regularly, with a minimum of 6-7 shorter essays and a term paper. Essays must be revised for competence. 5,000 word minimum.

Department: English
Course: ENG 106
Title: Film Literature
Cross-listed: FS 106
Exams: 6-8 film analyses
Description: Learning to describe and explain style, narrative and ideology in an international range of films from genres.

English

Department: English
Course: ENG 113W
Title: Reporting and Writing News
Instructor: Memmott, J. **Class Size:** 15
Exams: Weekly quizzes
Description: English 113, Reporting and Writing 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. This course fulfills the upper-level writing requirement.

Department: English
Course: ENG 116
Title: Creative Writing: Poetry
Instructor: Jordan, B.
Restrictions: Permission of Instructor
Description: This course will combine an introduction to the work of some well-known contemporary poets with a workshop forum for discussion of student poems. By examining the work of writers such as Walcott, Plath, Rich, Heaney, Sexton and others, students have a framework for understanding various elements of poetic form and technique. This is an introductory course for students who have begun to write on their own, but who may not be familiar with a lot of recent poetry. If possible, please submit 3-5 poems to the instructor, c/o the English Department in Morey 404, prior to the start of class. This description applies only to the course being offered during the fall of 1997 by Barbara Jordan. Descriptions of previous courses numbered Eng 116 can be obtained from the English Office.

Department: English
Course: ENG 117
Title: Creative Writing: Fiction **Class Size:** 15
Restrictions: Permission of Instructor
Description: Workshop in writing fiction: Comparison of student work with the best achievements in short stories and novels.

Department: English
Course: ENG 123
Title: Speech **Class Size:** 12
Instructor: Hazlett, M.
Restrictions: Not open to freshmen
Description: This course you will develop your skills in: (1) preparing and delivering extemporaneous talks, (2) reading aloud, and (3) critiquing the performances of others. You will make 4-6 presentations during the term. No written examinations. Class attendance required.

Department: English
Course: ENG 125
Title: Debate
Instructor: Nelson, S.
Coursework: Final paper
Description: 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.

Department: English
Course: ENG 128
Title: Freedom of Expression
Instructor: Nelson, S.
Exams: Quizzes
Coursework: Papers
Description: This course explores the controversies surrounding censorship, free speech, and hermeneutics. Seminar-style lectures and discussions are conducted and papers and quizzes make up the grading scheme. Class attendance is mandatory.

English

Department: English
Course: ENG 132
Title: Introduction to the Art of Film
Cross-listed: FS 132; AH 136
Exams: 3 short quizzes
Coursework: 3 short papers and weekly diaries on readings and films
Description: The primary visual, aural, and narrative conventions by which motion pictures create and comment upon significant social experience, seen in a variety of narrative films. Issues of framing, image, photographic space, film shot, editing, sound, narrative structure, and point of view will be discussed as components of cinematic style and meaning. This class is a prerequisite to many Film Studies seminars.

Department: English
Course: ENG 142
Title: British and American Literature: Introduction to African American Literature
Instructor: Grayson, D.
Description: Taking our cue from Mary Helen Washington, this course will examine the stories that African American writers have told about family and about relationships. We will look at novels, short stories and poems by well known and "well-seasoned" writers as well as by the younger, self-described "hip-hop" generation of writers. Authors and texts include: Paule Marshall--Brown Girl, Brownstones; Mary Helen Washington--Memory of Kin; Nelson George--Urban Romance; Trey Ellis--Home Repairs; Gloria Naylor--Women of Brewster Place; Miguel Algarin and Bob Holman--Aloud: Voice from the Nuyorican Poets Cafe, among others.

Department: English
Course: ENG 144
Title: Shakespeare
Cross-listed: ENG 144W
Instructor: Peck, R.
Exams: one-hour exam, two papers, final exam
Description: The aim of Eng 144 is to provide a thorough knowledge of several of Shakespeare's plays and the critical techniques necessary to enjoy them intelligently. Methods of interpretation will vary, ranging from considerations of genre and underlying mythic or psychological patterns to detailed examination of theme, imagery, symbolism, style, and dramatic and theatrical strategy. Formal analysis will be stressed, but some attention will be paid to Shakespeare's literary and intellectual milieu. We will study the following plays: ROMEO AND JULIET, MIDSUMMER NIGHT'S DREAM, TAMING OF THE SHREW, HENRY IV, Pt.I, TWELFTH NIGHT, KING LEAR, CORIOLANUS, HAMLET, OTHELLO, MEASURE FOR MEASURE, A WINTER'S TALE, THE TEMPEST.

Department: English
Course: ENG 150
Title: English Literature I : Beowulf to Swift
Instructor: Higley, S. **Class Size:** 30
Exams: final exam
Coursework: 3-4 papers
Description: A course on great English works. What defines "great"? Why have men dominated the canon of "great literature" and what do they say about men, women, and the paternal Deity? Among the works to be read: BEOWULF and its celebration of male heroism; Chaucer's WIFE OF BATH and PARDONER; SIR GAWAIN AND THE GREEN KNIGHT; selection from Spenser's FAIRY QUEEN; Shakespeare's SONNETS; selections from Herbert, Milton and Donne; selections from Marvell, Pope and Dryden; and Swift's GULLIVER'S TRAVELS. Among the women, so often left out in courses of this sort, we will study Julian of Norwich and Marjory Kempe of the Middle Ages, Margaret Cavendish and Anne Bradstreet from the Renaissance and Mary Wollstonecraft's A VINDICATION OF THE RIGHTS OF WOMEN.

English

Department: English
Course: ENG 155
Title: American Literature
Cross-listed: ENG 155W
Instructor: Michael, J.
Description: In this course we will read a variety of works from the entire expanse of American literature. We will consider issues of community and reform, gender and power, ethnicity and national identity that have been of central concern in the development of American culture and in the construction of American identities. These identities have historically involved crucial disjunctions and conflicts as well as significant meldings. We will attempt to trace both in the works we read. Authors to be read may include Wheatley, Vassa, Emerson, Fuller, Thoreau, Whitman, Douglass, Melville, Hawthorne, Twain, Wharton, James, Faulkner, Hurston, Silko, Kingston. Can be taken for upper-level writing credit. This description applies only to the course being offered by John Michael during the fall of 1996. Descriptions of previous courses numbered Eng 155 can be obtained from the English office.

Department: English
Course: ENG 173
Title: Performance Techniques: Mask for Actors
Instructor: Romano, M.
Description: A series of intensive workshops over a three week period to "free up" the actor's voice, body, and imagination. Movement and improvisation along with character masks will be used to help the actor understand the value of posture, gesture, dramatic instinct, character development and most importantly a sense of play. To quote one of America's noted playwrights, Eugene O'Neill "...the mask is more subtle, imaginatively, suggestively dramatic than any actor's face can be..." This workshop will conclude with a presentation of mask improvisation for an invited audience. Classes are tentatively scheduled for Mon. Tues. Thurs. Fri. evenings, 7-10 pm.

Department: English
Course: ENG 174
Title: Technical Theater: Stage Lighting I
Instructor: Scarborough, M. **Class Size:** 15
Description: Stage Lighting I is offered in the Fall, and Stage Lighting II is offered in the Spring. This class consists of Part One and Part Two: the first half of the semester concentrates on Stage Lighting. We will focus on lighting design for the stage and students will work on lighting design projects that will include light plots, supporting paperwork, as well as design concepts. The second part of the semester concentrates on the Introduction to Sound Design I. We will focus on sound design for the stage. Students will work on sound design projects that will include sound plots, recording techniques, as well as design concepts.

Department: English
Course: ENG 177
Title: Stage Craft
Instructor: Kunin, M. **Class Size:** 15
Restrictions: Permission of Instructor
Description: A course on the history of theater production and theater techniques. The course will concentrate in a theoretical sense on the varied styles of theatrical presentation.

Department: English
Course: ENG 178
Title: Acting Techniques I
Instructor: Stanford, H.
Description: Training in the technique by which individual actors set forth the characters recorded in dramatic texts.

English

Department: English
Course: ENG 191Q
Title: What Literature is "Ours"?
Cross-listed: CAS 191Q
Instructor: Bleich, D.
Restrictions: Open to freshmen only
Coursework: Essays every other week, plus small commentaries and final project. Portfolio evaluation.
Description: This course explores questions relating to how literatures of different times and different societies come to feel as if they are "our own" and as if they are "alien" or "foreign. In school often British literature from the distant past is presented as if we living today in America can easily relate to it. Sometimes translated and "classical" literature from the West is also presented without much attention to the effects of its historical and geographic distance from our own society and ways of experiencing. Works of traditionally studied authors such as Shakespeare, Dostoevsky, Flaubert, Kafka, and Melville, as well as of newly included figures such as (for example) Aphra Behn, I.L. Peretz, Kate Chopin, Ann Petry, Audre Lorde, Cynthia Ozick, and Toni Morrison at once become ours and remain "other" in different senses. The same can be said, however, of works like THE ODYSSEY, and the Bible. In this course, we will try to experience and observe how literature becomes "ours," remains "other," or occupies less distinct, less certain places in our understanding. Our proposed path of inquiry is to consider how the feelings, identifications, values, biases, fantasies, and predispositions found in our responses to literature are a guide to our sense of "same" and "different" in individuals, communities, and societies. Some time is spent acquiring discipline in writing literary responses in varied, not necessarily academic modes. Students are invited to suggest literary works, films, and other items for study in this course.

Department: English
Course: ENG 195Q
Title: Outlaw Heroes: Robin Hood to Eastwood
Cross-listed: WST 195Q
Instructor: Hahn, T.
Restrictions: Open to freshmen only
Description: This course will examine the fascination, mainly within popular culture, of those who move outside the law in order to achieve some higher standard of justice. We will look at some actual bandits (including the question of whether Robin Hood was "real" and their operations in earlier times, but our main focus will be on the celebration of Robin Hood as the outlaw hero par excellence. Among the representations we will consider are early songs and ballads, broadside ("throwaway") sheets, early woodcuts and engravings, tabloid-style "lives" and novels, children's books, films (silent versions through Costner and Mel Brooks), cartoons, and TV serials. Much of this material (including that from earlier centuries) has been too popular to have received much study, or in many cases, even to have been reproduced. Part of the work in the course will be to examine some of these materials (including microfilms and photocopies of early publications, materials in the Rare Books Collection of the Library, films at Eastman House) in order to assess their cultural meaning (in their own time and for us) and the lack of attention they have received. Class members will be asked to keep a semester-long account of their reading, and to write one short analysis and one longer paper; for those who wish, the latter effort may take the form of a research or editorial project (using desk-top publishing resources). Class time will include up to ten film viewing sessions, as well as a visit to Eastman House for a film showing.

English

Department: English
Course: ENG 207
Title: Middle English Literature
Cross-listed: ENG 407
Instructor: Hahn, T.
Coursework: Class will proceed by lecture and discussion
Description: The focus of this course will be popular narratives-- ballads, romances, saints lives, adventure stories, autobiographies-- of the late Middle Ages in England. These will include stories of Robin Hood and other outlaws, tales of Gawain and other Arthurian heroes (including the high literary SIR GAWAIN AND THE GREEN KNIGHT, religious narratives such as PEARL, PATIENCE, and the BOOK OF MARGERY KEMPE. The first part of the course will be linked to the public events surrounding the international Robin Hood exhibition, film series, and conference to be held at the University in October. Readings will be in Middle English, though we will use editions with glosses and aids.

Department: English
Course: ENG 213
Title: Milton
Cross-listed: ENG 413
Instructor: Gross, K.
Exams: final exam
Coursework: three essays
Description: The course will attempt to cover most of John Milton's major poetry and some of his important prose works. At least a third of the semester will be devoted to Milton's visionary biblical epic, PARADISE LOST. We'll also be looking at his early lyric poetry, and the late tragic drama, SAMSON AGONISTES. Readings in the prose will include AREOPAGITICA, Milton's attack on censorship, and THE DOCTRINE AND DISCIPLINE OF DIVORCE. Among the issues to be considered in this course are Milton's ideas of poetry and poetic authority, his inventive re-writings of Biblical stories, his ideas of good and evil, his religious radicalism, his extreme and often paradoxical pictures of human freedom.

Department: English
Course: ENG 218
Title: Victorian Literature
Cross-listed: ENG 218W; ENG 418
Instructor: Levy, A.
Exams: 3 papers
Description: This course will study a representative sample of Victorian fiction, poetry and prose in order to understand how literary writing was implicated in the massive historical and political shift which saw the rise of the middle-class to power in England, and the expansion of the British empire over a major portion of the world's surface by the time of Queen Victoria's death at the turn of the century. Some of the issues we will address include: notions of domesticity, the household and gender identity; representations of "others"--the poor, criminals, the insane, foreigners; notions of race; and representations of Empire and imperialism. Readings will include texts by Carlyle, Tennyson, Gaskell, Dickens, Bronte, Ruskin, George Eliot, Kipling, and Wilde.

Department: English
Course: ENG 223
Title: American Moderns
Cross-listed: ENG 423
Instructor: Grella, G.
Description: The course covers the period roughly between World 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. This description applies only to the course being offered during fall 1996 by G. Grella. Descriptions of previous courses numbered 223 can be obtained from the English office.

English

Department: English
Course: ENG 239
Title: Contemporary Women Poets on Poetry
Cross-listed: ENG 439
Instructor: Jordan, B.
Description: This course will explore the thought and work of some influential contemporary women poets, among them Susan Howe, Eavan Boland, Carolyn Forché, Heather McHugh, Ann Lauterbach, Jorie Graham, Rita Dove, and Louise Glück. We'll consider how they articulate their aesthetic projects--in prose as well as poetry-- and how critics are receiving their work. Since poets often speak about poetry in a manner that differs from academic discourse, we will compare the language of both, when possible. On some of these poets, commentary is still scarce; hence, the course offers a glimpse into current poetic debates and expression.

Department: English
Course: ENG 240
Title: Modern Literature
Cross-listed: ENG 440
Instructor: Longenbach, J.
Exams: Midterm and final exam
Coursework: 2 essays
Description: This course will focus on British and American writing (both fiction and poetry) that flourished between the two World Wars. We will necessarily pay a great deal of attention to the variety of formal experimentation found in modernist writing; but we will also explore the interaction of these texts with the social, political, and philosophical movements of the period. Although we will read the work of six writers (W.B. Yeats, James Joyce, T.S.Eliot, Virginia Woolf, William Faulkner, and Elizabeth Bishop), the survey will be somewhat lopsided, since we will spend four weeks studying Joyce's *Ulysses*, the central text of Anglo-American modernism; it is a long, difficult, and deeply rewarding book. Participation in discussion is required.

Department: English
Course: ENG 250
Title: Film Analysis
Cross-listed: ENG 450; AH 273; FS 250
Instructor: Cherchi-Usai, P. **Class Size:** 20
Description: This is an in-depth, comprehensive program in the methodology and practice of studying the moving image in its photographic and electronic form. Operating as a seminar or workshop, students will spend most of the semester analyzing a series of contemporary films shown at the George Eastman House on Tuesday nights. Students will closely examine these films, laying bare their technique, narrative structure, director's cut vs. release print, film vs. video version, literary source, genre, acting style, methods of composition, critical reception, architecture and music, as well as their overall aesthetic and philosophical dimension. Alternative and often conflicting patterns of analysis will be examined. Students will be expected to lead or co-lead the workshops with the teacher and/or another student. A mid-term paper will be assigned on one of the films shown during the Tuesday classes. A final paper of 15-20 pages (plus bibliography and notes, when necessary) will be assigned, but the final grade will largely depend on class participation. Students are expected to do bibliographic research, and keep a journal of the Tuesday screenings and discussions. Bus service from the UR campus to George Eastman House will be available to students.

Department: English
Course: ENG 250
Title: The Art of Film: Film Analysis (In Paris)
Cross-listed: ENG 250W; ENG 450; FS 250
Instructor: Rodowick, D.
Coursework: Weekly journal, one or two class presentations, and three short papers (5 pages)
Description: In this seminar, we will discuss theoretical approaches to the close analysis of film, as well as engage in the practical analysis of film. Special topics include: narrative structure; narration and scenic space; point of view; and music, sound, and voice. There will be weekly screenings in addition to class discussion of assigned readings. The class will emphasize the study of French film and the contribution of French film theory to close readings of narrative films. THIS COURSE IS BEING TAUGHT IN PARIS IN FALL 1997.

English

Department: English
Course: ENG 251
Title: Popular Film Genres: The Gangster Film
Cross-listed: ENG 451; FS 251
Instructor: Grella, G.
Restrictions: Not open to freshmen
Exams: one final exam
Coursework: Two or three papers
Description: We will screen and study approximately 12 gangster and crime films from the rich genre of such movies; we will also read some related fiction and some critical studies of the form. We will look at films spanning the history of cinema from LITTLE CAESAR to THE GODFATHER, examining the devices of the form, those elements that seem to define it, the relation of the subject to the culture, the meaning of the film, and so forth. Method: lecture and discussion.

Department: English
Course: ENG 252
Title: Issues in Film: Classic Hollywood Heroines
Cross-listed: ENG 452; FS 252
Instructor: Johnson, J.W.
Prerequisites: basic writing course
Exams: one 3-hour final exam
Coursework: A mid-term (7-8 pages) and a term paper (10-12 pages)
Description: We will study Hollywood films from 1920 to 1990 for their changing representations of American women, using Molly Haskell's FROM REVERENCE TO RAPE as a basic survey-text. We will examine the roles assigned to American women, the actresses who played them, and their impact on a changing society. We will use a variety of critical approaches (literary, psychological, feminist) when dealing with films. These include WAY DOWN EAST (1920), ALICE ADAMS (1935), STELLA DALLAS (1937), STAGE DOOR (1937), SO PROUDLY WE HAIL (1943), DOUBLE INDEMNITY (1944), THE HEIRESS (1949), ALL ABOUT EVE (1950), THE GROUP (1966), RACHEL RACHEL (1968), ALICE DOESN'T LIVE HERE ANYMORE (1975), SILKWOOD (1983), AND A LEAGUE OF THEIR OWN (1992). We will pay some attention to women as directors and screen-writers and the overall place of women in the studio film industry.

Department: English
Course: ENG 254
Title: Film History: Documenting Health
Cross-listed: ENG 254W; ENG 454; FS 254; AH 272
Instructor: Cartwright, L.
Coursework: 2 research papers
Description: How have motion pictures influenced the course of public health, medical education, and popular consciousness about health issues in twentieth-century America? This course will provide an opportunity to pursue this question by considering the role of motion pictures in American public health campaigns and in medical education and research; and the impact of documentary films about health issues and medical history on health care professionals and the broader public. Topics considered will include the role of educational films in venereal disease, tuberculosis, and HIV/AIDS public health campaigns; the history of the medical teaching film; and the rights of patients imaged in medical media. Attendance at a weekly film screening will be required in addition to scheduled class meetings.

Department: English
Course: ENG 254
Title: Film History: An Historical Survey (taught in Paris)
Cross-listed: ENG 254W, ENG 454, FS 254, FR 269
Instructor: Rodowick, D.
Coursework: Weekly journal, one or two class presentations, three short papers (5 pages)
Description: This seminar will examine the history of French cinema from its origins to the present day, but with a special focus: the city of Paris. We will seek to understand not only the role the city has played in the evolution of the French film industry and in the history of French film criticism, but also how the image of Paris has been figured, in both real and imaginary ways, in narrative cinema. Class room discussion will provide a critical framework for weekly readings and screenings. There will also be weekly walks and guided tours of historically significant sites and institutions.

English

Department: English
Course: ENG 324
Title: 20th Century Literature: Putting Modernism Together
Cross-listed: ENG 438
Description: This course proposes to investigate ways of comparing the arts, through the slow rotation of contexts around several rich texts. There will be no examinations or papers: our class meetings will consist to a large extent of short presentations by students (either as individuals or small groups)--these projects will range from slide shows and music reviews to discussions of fiction's relation to history. In part one we will study some of the important artistic events of a few crucial years, such as 1872 (Nietzsche and Monet), 1899 (Conrad and Debussy), 1913 (Pound, Picasso and Stravinsky), and 1927-28 (Woolf's TO THE LIGHTHOUSE and Lawrence's LADY CHATTERLEY'S LOVER). In part two we will try to construct longer stories recounting the history of Modernism (organized around such topics as Impressionism, Expressionism, and Futurism); in part three we will have revels.

Department: English
Course: ENG 325
Title: American Literature: The Whitman Tradition in American Poetry
Cross-listed: ENG 325W
Instructor: Michael, J.
Description: We will focus on the works of Walt Whitman, Jean Toomer, Hart Crane, and William Carlos Williams. In each case we will develop readings of the major works of each poet, with special attention to the attempt in each case to create the paradoxical form of an "American epic." We will also develop an account of the idea of poetry, the claims made for poetry, and the character of the poetic career for each writer. We will consider less extensively but in some detail works by T. S. Eliot, Ezra Pound, and others to help us frame these questions. We will consider the nature and significance of "tradition" for these poets, the surprising importance of gender and sexual identity in their work, and the visions of American culture and history that each reflects upon and helps construct.

Department: English
Course: ENG 328
Title: The Lyric
Instructor: Gross, K.
Coursework: 3-4 essays, and a variety of shorter written exercises
Description: A survey of the different shapes of lyric poetry in English and American literature from the Renaissance to the modern period, from John Donne to John Ashbery. Much of our time in class will be spent closely reading individual poems, trying to understand their language and imagery, their use of dramatic voice, their ways of transforming ideas and objects, and their ways of describing the poetic impulse itself. We'll be discussing some formal questions, for example, different types of rhyme, meter, and free verse; we'll also be thinking about why lyric poetry can seem by turns terribly direct and yet very like a riddle. The reading for most of the course will be drawn from poets of different periods, grouped thematically or by genre, but the last third of the semester we'll be concentrating closely on work by two poets, Emily Dickinson and Elizabeth Bishop.

Department: English
Course: ENG 333
Title: Theater in England
Instructor: Peck, R.
Description: The course will be conducted in London and Stratford from December 29-January 14. Students should plan to arrive in London on December 28 and may depart on January 15. We will see eighteen to twenty plays in the West End, Stratford, and in fringe theaters, ranging from contemporary to classical and tragedy to musicals. A schedule of plays seen in 1996 is available in the English Department. The cost will be \$1900, which will include the theater tickets, back stage tours, guest lectures, housing (in London the Harlingford Hotel, with English breakfast), transportation from London to Stratford and back to London, and tuition. You register for this course through the English Department. A deposit of \$500 must be made by October 10. The remaining \$1400 must be paid by December 1, 1997.

Class Size: 15

English

Department: English
Course: ENG 334
Title: Alien Sex: Gender and Difference in Old and New Fantasy
Cross-listed: ENG 484; WST 334
Instructor: Higley, S.
Description: "A man wants his virility regarded, a woman wants her femininity appreciated, however indirect and subtle...On Winter they will not exist. One is respected and judged only as a human being. It is an appalling experience." Ursula Le Guin. "Vive la difference." Katherine Hepburn to Spenser Tracy. This course examines representations of human sexuality in myth, fantasy, science fiction (and some mainstream), especially in terms of its extraordinary dimensions. What gets labeled "extraordinary" and why is a subject of inquiry in itself: do gods, demons, incubi, succubi, androids, androgynes, vampires, and alien species really offer a different sexuality or a way to "cross-dress" the sameness of human experience? How is hetero- as well as homosexuality alienized? What is the difference we are even in search of? We will look at the divine lover (Jupiter and Io; the Virgin and the Holy Spirit), the demonic lover (the Banshee, the Vampire), the inhuman lover (the alien, the android), the non-hetero lover (any number of realistic and fantastic situations). Texts by Octavia Butler, Angela Carter, Philip K. Dick, Tanith Lee, Ursula Le Guin, Joanna Russ, Anne Rice, Bram Stoker; film: "The Man Who Fell to Earth," Bram Stoker's "Dracula" (if available), "Demonseed," "The Crying Game: (if available).

Department: English
Course: ENG 334
Title: Imperialism and the Novel
Cross-listed: HIS 299
Instructor: Conklin, A.
Description: Please see HIS 299

Department: English
Course: ENG 335
Title: Major Literary Figure: Charles Dickens
Instructor: Levy, A.
Description: Why does the tale of Ebenezer Scrooge and Tiny Tim still warm our hearts each televised Christmas? Why do we continue to root for Oliver Twist when he asks for more porridge, please? What gives these Dickensian plots their emotional power and continued relevance in our world so distant from the one the Victorians made? This course will consider these questions and more as we investigate the cultural work the novels of Charles Dickens performed in nineteenth-century Britain and continue to perform today. Among the issues we will address are Dickensian representations of the city, the factory, the household, masculinity and femininity, the working classes, commodity culture, and British colonialism and imperialism. Readings will include HARD TIMES, OLIVER TWIST, A CHRISTMAS CAROL, DOMBEY AND SON, GREAT EXPECTATIONS, OUR MUTUAL FRIEND, and THE MYSTERY OF EDWIN DROOD.

Department: English
Course: ENG 335
Title: Major Literary Figure: Naylor and Cooper
Instructor: Grayson, D.
Prerequisites: Freshman Writing
Coursework: Oral presentations, two 5-7 page papers, weekly (short) writing assignment.
Description: We will read and discuss all of the works of both authors. Texts will include: THE WOMEN OF BREWSTER PLACE, LINDEN HILLS, MAMA DAY, BAILEY'S CAFE, HOMEMADE LOVE, IN SEARCH OF SATISFACTION, MATTER IS LIFE, SOME SOUL TO KEEP.

English

Department: English
Course: ENG 335
Title: Studies in a Major Literary Figure: Jane Austin
Instructor: Johnson, J. W.
Prerequisites: Freshman English
Exams: A mid-term paper (7-8 pages), term paper (10-12 pages), a 3-hour final.
Description: The contents of this course are all the works of Jane Austin, including the Juvenalia and occasional letters and shorter pieces. After reading such revelant background writers as Radcliffe, Burney, and Mackenzie, we will trace the development of Austin's writing skills and themes from LOVE AND FRIENDSHIP to PERSUASION. When possible, we will also view some of the recent dramatizations of Austin's novels and examine their verisimilitude to the originals. In addition, we will pay attention to Austin's life, cultural milieu, and popularity in the 1990's.

Department: English
Course: ENG 338
Title: Classical Mythology
Cross-listed: CLA 200
Instructor: Geier, A.
Description: Please see REL 200

Department: English
Course: ENG 339
Title: Issues in Feminist Writing: Black Women Writers and Literacy
Cross-listed: WST 339
Instructor: Middleton, J.
Exams: A midterm essay, a final essay
Coursework: Three oral presentations; substantial journal of literary narratives.
Description: Our class will read a variety of literacy narratives by black women and women of color who speak (and sing) about the politics of race, gender, writing, and difference: Gloria Anzaldua, Paula Gunn Allen, Toni Cade Bambara, Hazel Caraby, Betty Carter, Barbara Christian, Ruby Dee, bell hooks, Zora Neale Hurston, June Jordan, Abby Lincoln, Audre Lorde, Paule Marshall, Trinh Minh Ha, Toni Morrison, Me'shell Ndege Ocello, Dianne Reeves, Ntozake Shange, Leslie Marmon Silko, and Patricia Williams. Using these perspectives we will explore language issues that are not usually discussed in the study of literature and writing, such as oral memory, listening, ritual and language, body language, the spoken and the written word, speaking pictures, gumbo ya ya, reading aloud, the paraticipatory reader, the language of home and the language of school, gossip, music, song, and feminist oral traditions. Discussing the significance of these language issues, our class will also read a diverse range of writing by black women that illustrate new uses and conceptions of literacy, especially in the novel. Finally, our class will begin to write our own literacy narratives, exploring the significance of women, race, and writing.

Department: English
Course: ENG 361
Title: Advanced Creative Writing: Fiction
Cross-Listed: ENG 489
Instructor: Scott, J. **Class Size:** 15
Prerequisites: ENG 116
Description: This is an advanced workshop in imaginative writing for students who have completed ENG116(Beginning Fiction Writing) or who have been writing fiction actively on their own. We will read short fiction by a variety of writers including Cheklav, Melville, Poe, Falkner, Mansfield, Carter, and Paley. Students will work on either a series of short narratives or a portion of a novel. A minimum of forty pages of original fiction will be required.

English

Department: English
Course: ENG 379R
Title: Editorial Strategies
Instructor: Hahn, T.
Description: This is a hands-on introduction to bibliographical research, editorial procedures and techniques, the preparation of electronic texts (with accompanying materials: introductions, glosses, notes), and the production of camera ready copy (using a desk-top application such as PageMaker, and attending to such details as fonts, format, styles, layout, and so on). The research, editing, and publishing operations will focus upon a texts from the early modern period, though the primary emphasis of the course will be to take each student through an entire cycle, from identifying and obtaining copies of early texts through the printing of reproducible hardcopy (or machine-marked copy for Internet publication).

Department: English
Course: ENG 380
Title: Movement Theories and Alignment
Cross-listed: ENG 380W/DAN 380
Instructor: Hook, J.
Description: Please see DAN 380

Department: English
Course: ENG 382
Title: Directing Practicum
Instructor: Willis, M.
Restrictions: Permission of Instructor
Description: In consultation with the instructor.

Department: English
Course: ENG 383
Title: Plays in Production I
Instructor: Willis, M. **Class Size:** 50
Description: Each student will be required to participate fully in the production, build sets, find props, write publicity, work on crews, run the show. A great deal of time will be spent evenings and weekends on production and rehearsals, also the class will meet once a week in the early stages for lectures and historical background to the play. Plays in Production I is offered in the first half of the Fall and Spring semester. ENG 383 - "Noises Off" by Michael Frayn - 2 credits, ENG 384 - "Noises Off" by Michael Frayn - 4 credits

Department: English
Course: ENG 385
Title: Plays in Production II
Instructor: Maister, N.
Description: Plays in Production II focuses on the practical production aspects of a particular play being presented by the UR International Theatre Program. Lectures detail both the history, style and thematics of the play being produced, as well as the mechanics of play production (including the role of the director, designer, dramaturg, etc.) Students also get hands-on experience of producing and mounting a theatrical production by participating in lab work where they build sets and props, create costumes, rig and hang theatrical lighting and sound equipment, run light and sound boards during production, and generally engage in all facets of backstage preparation and life. Plays in Production II is offered in the second half of the Fall and Spring semesters. ENG 385 - "Hello and Goodbye by Athol Fugard - 2 credits ENG 386 - "Hello and Goodbye by Athol Fugard - 4 credits

English

Department: English
Course: ENG 396
Title: Shakespeare and his Times
Instructor: Kegl, R.
Restrictions: Permission of Instructor
Description: This course will begin in the early modern period. We will locate Shakespeare's plays within a range of popular and elite early modern theatrical practices, including productions in households, the court, school, halls, and amphitheaters such as the Globe. And we will analyze Shakespeare's second series of history plays within competing early modern generic and political models for narrating history. The reading list for this section of the course will include Henry IV, Part One, Henry IV, Part II, and Henry V; Elizabeth Cary's *The Tragedie of Mariam*. After considering the initial production of Shakespeare's plays, we will consider how both those plays and the figure of Shakespeare have been used subsequently to define popular and elite culture, authorship, and history in 18th- century restagings of Shakespeare's work, 20th century rewriting of Shakespeare's plays by African-American authors, the current Globe reconstruction project, and the reproduction of Shakespeare's stage practices at 20th century fairs and exhibitions, the establishing of the Folger Shakespeare Library, the use of Shakespeare within film and television, and references to Shakespeare and his works in ongoing debates about college and university curricula.

Film Studies

Department: Film Studies
Course: FS 102
Title: Pornography, Censorship, and Speech
Cross-listed: CLT 102/CLT 102W/FS 102W/WST 166/WST166W
Instructor: DiPiero T, Willis S **Class Size:** 100
Description: Should pornography be considered protected speech? If so, what are the cultural consequences of that protection? Should certain forms of representation be censored, and if so, how would these decisions be made? By examining a variety of representations from print and visual cultures, we will analyze competing definitions of pornography and their implications for our cultural context. We will also analyze the rights and responsibilities inherent in the notion of free speech. How might differences of gender or sexuality affect the way we produce and consume pornography? Can pornography shed any light on our current social and political conflicts? What is the nature and power of fantasy? Readings will include works by such writers as the Marquis de Sade, Andrea Dworkin, Catherine MacKinnon, Judith Butler, Kobena Mercer, Stanley Fish, Pat Califia, and others.

Department: Film Studies
Course: FS 106
Title: Film Literature **Class Size:** 30
Description: Learning to describe and explain style, narrative and ideology in an international range of films from several periods and genres.

Department: Film Studies
Course: FS 132
Title: Introduction to the Art of Film
Cross-listed: ENG 132/AH 112 **Class Size:** 100
Description: The primary visual, aural, and narrative conventions by which motion pictures create and comment upon significant social experience, seen in a variety of narrative films. Issues of framing, image, photographic space, film shot, editing, sound, narrative structure, and point of view will be discussed as components of cinematic style and meaning. Students will write three short papers and keep weekly diaries on readings and films. There will also be three short quizzes. This class is a prerequisite for many Film Studies seminars. There is an evening weekly film screening in addition to regular class times.

Film Studies

Department: Film Studies
Course: FS 229
Title: Issues in Contemporary German Cinema: Queer Film
Cross-listed: GER 249/CLT 229/GER 449/CLT 429
Instructor: Halle R **Class Size:** 30
Description: This course will take as its object German film in order to examine how gender and sexuality are historically and socially constructed. We will use various methods to query a diverse group of films: cultural debates, social history, and, especially, theoretical works from feminist and queer film studies. While focusing on German film, the students will also gain insights into broader questions of narration, identity formation, power relations, and social movements.

Department: Film Studies
Course: FS 250
Title: Art of Film: Film Analysis
Cross-listed: FS 250/AH 273
Instructor: Cherchi-Usai P **Class Size:** 35
Coursework: A mid-term paper will be assigned on one of the films shown during the Tuesday classes. A final paper of 15-20 pages (plus bibliography and notes, when necessary) will be assigned, but the final grade will largely depend on class participation.
Description: This is an in-depth, comprehensive program in the methodology and practice of studying the moving image in its photographic and electronic form. Operating as a seminar or workshop, students will spend most of the semester analyzing a series of contemporary films shown at the George Eastman House on Tuesday nights. Students will closely examine these films, laying bare their technique, narrative structure, director's cut vs. release print, film vs. video version, literary source, genre, acting style, methods of composition, critical reception, architecture and music, as well as their overall aesthetic and philosophical dimension. Alternative and often conflicting patterns of analysis will be examined. Students will be expected to lead or co-lead the workshops with the teacher and/or another student. Bus service from the UR campus to George Eastman House will be available to students.

Department: Film Studies
Course: FS 250
Title: Film Analysis - Taught in Paris
Cross-listed: ENG 250/FS 250W/ENG 450
Instructor: Rodowick D
Coursework: Weekly journal; one or two class presentations; three short papers (5 pages)
Description: In this seminar, we will discuss theoretical approaches to the close analysis of film, as well as engage in the practical analysis of film. Special topics include: narrative structure; narration and scenic space; point of view; and music, sound, and voice. There will be weekly screenings in addition to class discussion of assigned readings. The class will emphasize the study of French film and the contribution of French film theory to close readings of narrative films. This course is taught in Paris.

Department: Film Studies
Course: FS 251
Title: Popular Film Genres: The Gangster Film
Cross-listed: ENG 251/ENG 451
Instructor: Grella G **Class Size:** 40
Exams: 1 final exam
Coursework: 2 or 3 papers will be assigned.
Description: We will screen and study approximately 12 gangster and crime films from the rich genre of such movies; we will also read some related fiction and some critical studies of the form. We will look at films spanning the history of cinema from LITTLE CAESAR to THE GODFATHER, examining the devices of the form, those elements that seem to define it, the relation of the subject to the culture, the meaning of the film, and so forth. We will proceed by lecture and discussion.

Film Studies

Department: Film Studies
Course: FS 252
Title: Issues in Film: Classic Hollywood Heroines
Cross-listed: ENG 252/ENG 452
Instructor: Johnson J **Class Size:** 40
Prerequisites: Basic writing course
Exams: One 3-hour final exam
Coursework: Mid-term paper, 7-8 pages; term paper, 10-12 pages
Description: We will study Hollywood films from 1920 to 1990 for their changing representations of American women, using Molly Haskell's FROM REVERENCE TO RAPE as a basic survey-text. We will examine the roles assigned to American women, the actresses who played them, and their impact on a changing society. We will use a variety of critical approaches (literary, psychological, feminist) when dealing with the films. These include WAY DOWN EAST (1920), ALICE ADAMS (1935), STELLA DALLAS (1937), STAGE DOOR (1937), SO PROUDLY WE HAIL (1943), DOUBLE INDEMNITY (1944), THE HEIRESS (1949), ALL ABOUT EVE (1950), THE GROUP (1966), RACHEL RACHEL (1968), ALICE DOESN'T LIVE HERE ANYMORE (1975), SILKWOOD (1983), and A LEAGUE OF THEIR OWN (1992). We will pay some attention to women as directors and screen-writers and the overall place of women in the studio film industry.

Department: Film Studies
Course: FS 254
Title: Film History: Documenting Health
Cross-listed: ENG 254/FS 254W/WST 232/AH 281/ENG 454
Instructor: Cartwright L **Class Size:** 30-50
Coursework: 2 research papers
Description: How have motion pictures influenced the course of public health, medical education, and popular consciousness about health issues in twentieth-century America? This course will provide an opportunity to pursue this question by considering the role of motion pictures in American public health campaigns and in medical education and research; and the impact of documentary films about health issues and medical history on health care professionals and the broader public. Topics considered will include the role of educational films in venereal disease, tuberculosis, and HIV/AIDS public health campaigns; the history of the medical teaching film; and the rights of patients imaged in medical media. Attendance at a weekly film screening will be required in addition to scheduled class meetings. This class may be taken to fulfill the upper-level writing requirement.

Department: Film Studies
Course: FS 254
Title: Film History: Paris/Cinema: An Historical Survey - Taught in Paris
Cross-listed: ENG 254/FR 269/FS 254W/ENG 454
Instructor: Rodowick D
Coursework: Weekly journal; one or two class presentations; three short papers (5 pages)
Description: This seminar will examine the history of French cinema from its origins to the present day, but with a special focus: the city of Paris. We will seek to understand not only the role the city has played in the evolution of the French film industry and in the history of French film criticism, but also how the image of Paris has been figured, in both real and imaginary ways, in narrative cinema. Classroom discussion will provide a critical framework for weekly readings and screenings. There will also be weekly walks and guided tours of historically significant sites and institutions. This course is taught in Paris.

Film Studies

Department: Film Studies
Course: FS 263
Title: Video: Production/Projects
Cross-listed: FS 463
Instructor: Whitten J-W **Class Size:** 15
Restrictions: Permission of Instructor
Coursework: An original video project is required for this course.
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 a video project. Video techniques will be studied through screenings, group discussions, readings, practice sessions and presentations of original video projects made during the course. Studio fee: \$25.00

Department: Film Studies
Course: FS 279
Title: Contemporary French Cinema
Cross-listed: FR 279/FR 279W/CLT 279/CLT 279W/FR 479
Instructor: Willis S **Class Size:** 30
Description: Through close analysis of popular film, this course will explore contemporary French culture as it reworks national identity. Focusing on changing definitions of "Frenchness," we will examine its articulations with shifting conceptions of tradition, of the popular, and of the nation. We will read central cultural conflicts around identity and difference in the context of the emergent European economic community, as well as the specifically French context of "immigration" and "assimilation." Of particular interest, for our purposes, will be comparative analysis of French and US popular discourses on social issues involving sexuality and gender, race, ethnicity, and "multiculturalism." Films will include works by Luc Moulett, Bertrand Blier, Luc Bresson, Andre Techine, Cyril Collard (SAVAGE NIGHTS), Mathieu Kassovitz (HATE), Claire Denis, Ahmed Bouchaala (KRIM), as well as recent works by such widely known auteurs as Claude Chabrol and Jean-Luc Godard. Attendance at a weekly film screening will be required in addition to scheduled class meetings.

Department: Film Studies
Course: FS 293
Title: New Japanese Directors
Cross-listed: JPN 293/JPN 293W/CLT 276/CLT 276W/CLT476
Instructor: Bernardi J **Class Size:** 25
Description: Analysis of contemporary Japanese film from the New Wave to the present, with an emphasis on works of the 1980s and 1990s. Special attention is given to the representation of gender and national difference and the role of Japanese film in world cinema. Screenings will include the work of Itami Juzo, Hayashi Kaizo, Oguri Kohei, Morita Yoshimitsu, Ishii Sogo, Sawai Soichiro, and Obayashi Kazuhiko. Attendance at a weekly film screening will be required in addition to scheduled class meetings.

Department: Film Studies
Course: FS 294
Title: Spanish Film
Cross-listed: SP 294/SP 294W/CLT 294/CLT 294W/CLT 494
Instructor: Schaefer C **Class Size:** 40
Description: Devoted to the analysis of recent Spanish cinema. Beginning with the early post-Civil War period, the focus is on film as a narrative response to Spanish social reality. Considers the translation of other media (novels, short stories, etc.) to film and the interpretation of history through the medium of cinema. Will include films by directors such as Bunuel, Patino, Erice, Saura, Garcia Sanchez, Almodovar. Attendance at a weekly film screening will be required in addition to scheduled class meetings.

Film Studies

Department: Film Studies
Course: FS 298
Title: Japanese Animation (Anime)
Cross-listed: JPN 292/JPN 292W/CLT 298/CLT 298W/CIT 40
Instructor: Bernardi J **Class Size:** 30
Description: An exploration of Japanese popular culture through the world of anime. Films cover a wide range of subgenres, from Hayao Miyazaki's THE CASTLE OF CAGLLIOSTRO to more recent works including AKIRA(cyberpunk), SILENT MOBIUS and NEO-TOKYO (futuristic manga adaptations), ROBOT CARNIVAL (battling robots, androids), GRAVE OF THE FIREFLIES (postwar nostalgia). Discussions will address issues of landscape (city vs. furusato), period, fantasy, gender (male, female, androgyne), racism (self vs. other), cultural anxiety. Screenings will be held in tandem with an anime series at the George Eastman House.

Department: Film Studies
Course: FS 335
Title: Major Literary Figure: Jane Austen
Cross-listed: ENG 335
Instructor: Johnson W **Class Size:** 25
Description: The contents of this course are all the works of Jane Austen, including the JUVENALIA and occasional letters and shorter pieces. After reading such relevant background writers as Radcliffe, Burney, and Mackenzie, we will trace the development of Austen's writing skills and themes from LOVE AND FRIENDSHIP to PERSUASION. When possible, we will also view some of the recent dramatizations of Austen's novels and examine their verisimilitude to the originals. In addition, we will pay attention to Austen's life, cultural milieu, and popularity in the 1990s.

History

Department: History
Course: HIS 100
Title: Western Civilizations I
Instructor: Bakos, A.
Description: A general introduction to the political, religious, and cultural traditions of the Western and Middle-Eastern world from its origins to the 17th century. The course includes both lectures and small discussion sessions. The course fulfills a requirement for potential history majors and will interest non-majors who wish to acquire background in history.

Department: History
Course: HIS 104
Title: American Civilization
Instructor: Rubin, J.
Exams: Mid-term and final
Coursework: Typical requirements consist of short essays on readings, a mid-term and final examination, and a brief term paper.
Description: This course explores some of the values, beliefs, anxieties, institutions and peoples that have shaped American culture and society throughout its history. Themes may include the tension between individualism and the desire for community, the quest for various "American dreams," the response to technology, the changing nature of education, religion, and politics, and the search for traditions in the arts. The course will acquaint students with a range of sources reflecting both intellectual movements and popular expression, such as sermons, novels, films, and social criticism.

History

Department: History
Course: HIS 105
Title: Traditional Japan
Instructor: Hauser, W. **Class Size:** 45
Exams: Midterm and final examination
Coursework: Each student will write a term paper on a subject they choose dealing with some aspect of traditional Japanese culture or society.
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; D.T. Suzuki, ZEN AND JAPANESE CULTURE; Ihara Saikaku, FIVE WOMEN WHO LOVED LOVE; G.L. Bernstein, RECREATING JAPANESE WOMEN and a survey text among others.

Department: History
Course: HIS 106
Title: Colonial and Contemporary Africa
Cross-listed: HIS 106W/AAS 266/AAS 266W/ANT 248
Instructor: Mandala, E.
Exams: Midterm and final
Coursework: One 10-15 page paper
Description: This course explores the impact of capitalism and colonialism on African societies south of the Sahara. A brief discussion of precolonial Africa will lead to in-depth analyses of African peasants, the working class and the related question of gender differentiation in rural and urban Africa. The final section of the course will highlight the legacy of European political control: food deficits, international debt and, in general, economic dependency. Required Readings: C. Achebe, THINGS FALL APART, B. Emecheta, THE JOYS OF MOTHERHOOD; B. Freund, THE MAKING OF CONTEMPORARY AFRICA; J. Iliffe, THE EMERGENCE OF AFRICAN CAPITALISM; Ngugi wa Thiong'o, DEVIL ON THE CROSS, Ousmane, GOD'S BITS OF WOOD. Students may also take the course in fulfillment of the upper-level writing requirement.

Department: History
Course: HIS 116
Title: History of Eastern European Immigration to America and Immigrants' Worlds
Instructor: Walaszek, A.
Description: A survey of history of migrations to the United States (1880 to 1980) and of the main social and historical problems and changes which occurred in ethnic communities of immigrants from Central and Eastern Europe and their children in the US (Czechs, Jews, Magyars, Poles, Slovaks, Ukrainians). Processes of making and re-making of ethnicity will be discussed. The course will analyze the migration processes within the framework of Atlantic Economy, thus will present the migration to the USA in the broader context of intra-European migrations and migration to South America.

History

Department: History
Course: HIS 117
Title: Women in History: Modern Europe
Cross-listed: HIS 117W; WST 201; WST 201W
Instructor: Conklin, A. **Class Size:** 20
Exams: Three quizzes
Coursework: Two three-page papers; one five-page paper
Description: This course will examine all aspects of women's lives during the political, social, and economic turmoil of the modern era. Topics for lecture and discussion include domesticity, fertility, health, birth control, the relation between racial and gender issues, white collar, blue collar and pink collar work, and women's participation in political movements and overseas expansion. Readings in literature and history will focus on women in everyday life and in situations of crisis, like revolution and war. This course can be taken to satisfy the upper-level writing requirement.

Department: History
Course: HIS 151
Title: History of Imperial Russia
Cross-listed: RST 171
Instructor: Meehan, B.
Exams: Midterm and final
Coursework: 5 page paper
Description: An analysis of the major social, economic, political and cultural developments in Russia from the late seventeenth century to the revolution of 1917. Topics include: westernization of Russia; development of an intelligensia; serfdom and peasant culture; literature and national identity; industrialization; the revolutionary movement; Russian Marxism and the development of Bolshevism. Readings: Avrich, RUSSIAN REBELS, Bonnel, THE RUSSIAN WORKER, Haxtausen, STUDIES ON THE INTERIOR OF RUSSIA, Lenin, WHAT IS TO BE DONE?, Raeff, UNDERSTANDING IMPERIAL RUSSIA, Turgenev, FATHERS AND SONS.

Department: History
Course: HIS 165
Title: Afro-American History I
Cross-listed: AAS 141
Instructor: Hudson, L.
Exams: 4 or 5 quizzes and final exam
Coursework: Two papers of 2-3 pages; term paper of 5-6 pages.
Description: The course will consider the cultural and political development of Africans in America from the seventeenth century to the end of the nineteenth century. The main issues raised will be: What kind of cultural practices did the Africans bring with them to North America, and how were they adapted to cope with, as well as influence, the realities of a strange land and the demands of slavery? How did these Africans view America -- North and South? How different was life for those who were black but not slaves? Before 1900, did African-Americans endeavor to become full members in American society, or did a distant Africa continue to beckon? The course readings, lectures, and overall structure, will be guided by these questions.

Department: History
Course: HIS 172W
Title: Indians and Other Americans
Instructor: Young, M. **Class Size:** 50
Coursework: Three analytical essays based on readings, discussion, and lectures.
Description: The purpose of this course is to encourage informed and critical thinking about the encounters between Indians and other Americans in the area of the present United States: the intentions and failures of US Indian policies, the role of environmental change and tribal leadership in mediating cultural change, and the images Indians and whites have had of one another. To assist this critical thinking each student will write three analytical essays based on readings, discussion, and lectures. Students in this course will receive upper-level writing credit. Reading will include (tentative): Roger L. Nichols, THE AMERICAN INDIAN: PAST AND PRESENT; John G. Neihardt, ed., BLACK ELK SPEAKS; Leslie Marmon Silko, CEREMONY.

History

Department: History
Course: HIS 190Q
Title: Soviet Popular Culture (QUEST)
Instructor: Burds, J. **Class Size:** 15
Restrictions: Special application required Permission of college Dean required
Coursework: Students will write three short papers, and make at least one oral presentation.
Description: This multimedia course will examine contemporary post-Soviet Russia in historical perspective. Using films, literature, and memoirs, students will explore seven burning themes in Russian/Soviet Popular culture: youth culture; the legacy of the Afghan war; sexuality, pornography and religion; mafia, crime and corruption; environment and health; and popular protest and the upheavals of 1991 and 1993. Upper-level writing credit is available.

Department: History
Course: HIS 193Q
Title: Weimar Germany (QUEST)
Instructor: Applegate, C. **Class Size:** 15
Restrictions: Special application required Permission of college Dean required
Coursework: This course will begin with four weeks of general orientation to the era, in the form of presentations from the instructor and short reading and research assignments.
Description: This quest course will introduce 1st and 2nd year students to the intellectual excitement of historical research and interpretation. Our general subject will be Weimar Germany, the brief era in German history, lasting from 1918 to 1933, when "Germany tried democracy" and failed to hold onto it. Preceded by world war and abortive revolution and ended by the Nazi seizure of power, Weimar Germany was marked throughout by political turmoil and experimentation, economic crisis and stabilization, urban growth and decay, violence, creativity, and finally stalemate on all fronts. Historians have long been fascinated by the problems it presents, and not only because the rise of Nazism poses questions that must be answered: what was the nature of this society? who is to blame for its problems? who is to praise for its achievements? why did it fall apart so disastrously? why did it last as long as it did?

Department: History
Course: HIS 194Q
Title: Tokyo: Making of a Modern City
Cross-listed: JPN 196Q; CLT 196Q; AH 196Q
Instructor: Pollack, D.
Restrictions: Special application required Permission of college Dean required
Description: SEE JPN or CLT 196Q

Department: History
Course: HIS 196
Title: The Modern Family **Class Size:** 12-15
Instructor: Waters, J.
Restrictions: Juniors and Seniors need signature of the Instructor
Exams: Midterm(40%); class report (10%); end-term paper (50%)
Description: The "Modern Family" explores its origins, transformations, continuities and the "radical" challenges of the 20th Century to its present existence. The format includes seminar style discussions, field trips to the "Strong Museum" (or toys as primary teachers of gender roles within the family) and the "Stone-Tollan House" (or the "house" as the locus of "traditionalism"), and films such as the "Return of Martin Guerre" [Vigne] and "Dangerous Liaisons" [Frears]. In addition, the "Family Readings" consist of a xerox collection of articles by Laslett, Brown, Shorter, Herlihy, Boswell, Lynch, Wheaton, Laqueur, Horowitz, Perlmann, Orsi, Cookingham, and Waters. Finally, the students are to author a 'letter home,' and create their double digit page 'paper' on the modern family.

Department: History
Course: HIS 200W
Title: Introduction to Archaeology
Cross-listed: AH 218W
Instructor: Walsh, D.
Description: Please see AH 218W for course description.

History

Department: History
Course: HIS 203
Title: Economies & Society of 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 an 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 economics 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 world system.

Department: History
Course: HIS 207
Title: Women & Gender in the History of Science
Cross-listed: WST 207/WST 207W/HIS 207W
Instructor: Auchincloss, P. **Class Size:** 10
Description: Please see WST 207 for the course description.

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: At least one essay; 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 221
Title: Old Regime France, 1500-1715
Instructor: Bakos, A.
Exams: Midterm and final
Coursework: One paper
Description: This course will survey France from 1500-1715. It will cover cultural, political, and economic developments in France from the reign of Francis I to that of the Sun King, Louis XIV. Readings will include selected primary sources as well as books and articles reflecting new directions in the scholarship on early modern France.

Department: History
Course: HIS 225
Title: Germany & Austria, 1866-1914
Exams: 2 midterms and a final
Coursework: short reaction papers on reading, one 10-12 page research paper
Description: This course provides a thorough examination of state, society, and culture in Imperial Germany and the Austro-Hungarian empire in the period beginning with the unification of Germany and ending with the outbreak of the First World War. It will begin with a brief consideration of the decades leading up to German unification, then will consider the diverging, intersecting histories of the two most important states of Central Europe. This history encompasses not only Germany's rise to world-power status and Austria-Hungary's long slow decline, but also significant developments in economic life, ethnic and class divisions, and cultural production. Special topics to be covered include the rise of political anti-semitism, Wagner and Wagnerism, German militarism and Prussian power, working class culture, fin-de-siecle Vienna and Berlin as metropolis. Class will meet three times a week for two lectures and one discussion. The discussion will focus on the readings, which will provide students with a selection of important German-speaking authors, including Nietzsche, Fontane, Kafka, Thomas and Heinrich Mann, and Max Weber.

History

Department: History
Course: HIS 231
Title: British History to 1485
Cross-listed: HIS 231W
Instructor: Kaeuper, R.
Exams: Comprehensive essay examination. No quizzes.
Description: This course 1) combines various approaches to Medieval Britain - political, economic, social, cultural. 2) Concentrates on the creation of a distinct High Medieval Civilization and Viking invasions. 3) Gives students the challenge of writing a bit of history from primary sources in short research paper, as well as interpreting what they read from secondary sources in a set of essays. Lecture and discussions. Reading: Hollister, MAKING OF ENGLAND; Painter, WILLIAM MARSHALL; Southern, MEDIEVAL HUMANISM; "Beowulf," etc.

Department: History
Course: HIS 237
Title: England and Ireland since 1800
Instructor: Weaver, S.
Exams: Midterm and final
Coursework: One paper
Description: This course is an introductory survey of the tragically intermingled histories of England and Ireland from the end of the Napoleonic Wars to the present. Main topics include the effects of the Wars on England and Ireland; industrialization (and the lack thereof); class conflict in the 1830s and 40s; the Great Famine; the Irish emigration; Liberalism; Irish Nationalism and the IRA; the Depression; the two world wars, etc. Course consists of lectures, small-group discussions, and a few films.

Department: History
Course: HIS 240
Title: Inside Soviet Secret Police-History of Soviet Security & Soviet Espionage
Cross-listed: RST 240
Instructor: Burds, J. **Class Size:** 30
Restrictions: Permission of Instructor
Coursework: Interspersed with regular lectures, this course will be conducted as a succession of weekly discussions led by the instructor with students working individually and in teams. Regular attendance is mandatory.

Description: No theme has more powerfully captured the Cold War imagination than the virtual obsession with Soviet spies. Repressing their own citizens at home, the Bolsheviks craved world domination. They sent spies abroad to sabotage our progress, to infiltrate our governments, to penetrate into the hearts and souls of freedom-loving peoples everywhere. Or so the story went. The collapse of the former Soviet Union in 1991 and the opening up of the archives of Soviet and East European totalitarian regimes, has provided us with an unprecedented opportunity to glimpse those clandestine institutions from the inside, to test our beliefs and challenge our most fundamental views about Soviet police and society at home and abroad. Studying Soviet history through the prism of clandestine police and espionage organizations, we will survey the institutions, role and significance of Soviet state power, 1917-1991. Using a vast array of primary and secondary sources, some of which have been translated from KGB archives specially for this course, supplemented by literature and film, we will trace the roles of the domestic and international branches of the Soviet secret police throughout its seventy-year history. Besides a general chronological survey, we will develop specific themes: the role of ideology in Soviet clandestine organizations; the use and limits of memoirs and other sources in Espionage history; the role of political terror and denunciations; informants' networks; recruitment of agents at home and abroad; the British spy scandals of the 1930s-1950s; Soviet intelligence successes and failures in World War II; the origins of Cold War; the Atom Spy networks; the popular culture of spymania in the McCarthy era; the Cuban missile crisis; the Brezhnev era; the KGB and the Soviet collapse; spies and spying in the Post-Soviet era.

History

Department: History
Course: HIS 241
Title: Politics of Identity
Cross-listed: HIS 241W/CLT 248/W;RUS 248/W;JST 248/JST 248W
Instructor: Parthe, K.
Description: Please see RUS 248 for the course description

Department: History
Course: HIS 245
Title: Early America, 1600-1800
Cross-listed: HIS 245W
Instructor: Waters, J.
Exams: Midterm (35%); journal 15%, take-home essay of ten pages as final 50%

Coursework: Required field trip to Genesee Country Museum.
Description: This course looks at the intent of the first colonial adventurers, the various backgrounds of the diverse settlers, emerging social structures, family formations, the labor system(s), and the creation of 'fluid' gender constructs in this formative period of American History. It then connects this "mature" society with its independence movement and creation of innovative state and federal political documents. Readings include a UR "package" of eight 'key' articles (Perry Miller on the American Mission, James Horn on "Servant Emigration," Oscar Handlin on 'slavery,' Zuckerman on "social Context of Democracy, Waters on "Family, Inheritance, & Migration," and David Hall on 'wonderful magic,' etc.); the Henretta short text of 200 pages, and a collection of primary material including John Smith, John Winthrop, Mary Rowlandson, Ebenezer Cooke, John Woolman, and Gustavus Vasa AKA Olaudah Equiano, as well as the Thomas Jefferson version of the Declaration of Independence, the Articles of Confederation, and the Bill of Rights. This course can be taken for upper-level writing credit.

Department: History
Course: HIS 247
Title: Industrial America, 1865-1929
Instructor: Borus, D. **Class Size:** 40
Exams: Two in-class, and final
Coursework: Reading, discussion, and short research paper
Description: This course concentrates on the changes brought about by the rapid and extensive industrial development of the United States from Reconstruction to the Stock Market Crash. It explores how the large-scale mechanization of production transformed or affected the structure of business, labor, gender, and racial relations, and the uses of American power abroad. Beginning with Reconstruction and its failure, it traces the rise of the corporation, political clashes, labor strife, imperialism, the Populist challenge to the corporate order, the Progressive resolution, World War, and the New Era Prosperity.

Department: History
Course: HIS 256
Title: Economics of Sports & Entertainment
Cross-listed: ECO 224
Instructor: Engerman, S.
Description: Please see ECO 224 for the course description.

Department: History
Course: HIS 263
Title: Black Intellectuals & the Crisis of the 20th Century
Cross-listed: AAS 205/AAS 205W/ENG 226/PSC 263/PSC 463
Instructor: Fields, K.
Description: SEE AAS 205

History

Department: History
Course: HIS 265
Title: America and the Good War
Instructor: Westbrook, R.
Exams: Midterm, final
Coursework: Group Project, One (2000 word) paper
Description: This course is an investigation of the social and cultural history of the United States during the Second World War. Topics include the impact of the war on the political economy, on race relations, on the roles of women, on the intellectual life, and on art, literature and mass culture. The focus will be in the nature of the "total war" and its social, political, and ethical consequences for Americans. Hence the center of the course will be occupied not by professional soldiers and leading politicians but by draftees, refugees, and civilians. The latter will include the millions who died at Auschwitz, Tokyo, and Hiroshima, but the emphasis will be on the effect of these events on Americans. Reading in the course will encompass primary documents -- government reports, speeches, magazine articles, paintings, fiction, advertisements, photographs, and movies -- and leading secondary works. Books include: John Dower, WAR WITHOUT MERCY; Joseph Heller, CATCH-22; Studs Terkel, THE "GOOD WAR;" and Robert Abzug, INSIDE THE VICIOUS HEART.

Department: History
Course: HIS 297
Title: South Africa - A History of Apartheid
Cross-listed: AAS 297
Instructor: Moore, J. **Class Size:** 15
Restrictions: Permission of Instructor
Description: This course begins with a history of the founding of the European settlements in Southern Africa, after which the conflicts among the Boers, English, and black Africans are studied. A majority of the discussions and readings will center on political and economic policies in the wake of the dominance of the Afrikaners in Southern Africa. Considerable attention will be given to the rise of black consciousness and black nationalism in Southern Africa. Students interested in south Africa will profit from taking this course. The reading list changes each time the course is taught. There will be 7 monographs chosen as required reading. A research paper of not more than 25 pages is required. Seven videotapes are shown in order to give students a visual image of South Africa's system of Apartheid and a history of this nation.

Department: History
Course: HIS 299
Title: Imperialism and the Novel
Cross-listed: HIS 299W; ENG 334; ENG 334W
Instructor: Conklin, A. **Class Size:** 15
Coursework: Three short papers (6-8 pages)
Description: For most of the nineteenth and twentieth centuries, Western Europe subjected large parts of Asia and Africa to colonial rule. This course is designed to explore the collective experience of colonization through the novels and movies of those who either lived through it, or are still confronting the legacies of colonialism today. Although the texts we will be using are literary or cinematic ones, our approach will be historical. We will compare European imperialism in a variety of settings, to determine how and why it took so many forms and why reactions to it were so diverse. The readings and movies have been chosen to reflect as many different points of view (male, female, colonizer, colonized) as possible. Novels will range from such classics as Rudyard Kipling's KIM and Joseph Conrad's HEART OF DARKNESS, to more contemporary works such as Pramoedya Toer, THIS EARTH OF MANKIND and Assia Djebar, FANTASIA. This course can be taken for upper-level writing credit.

History

Department: History
Course: HIS 301W
Title: History Seminar **Class Size:** 15
Restrictions: Permission of Instructor
Description: The History Seminar is a course designed for History majors (ordinarily juniors), but open to all students. Consisting of a variety of seminars on selected topics, the course is designed to provide students with the foundation for historical research and writing. The principal requirement of the course is a substantial research paper (15-20 pages). Readings vary with the seminar. SEMINARS FOR FALL '97: FOOD CRISIS IN AFRICA (See HIS 346)/BOB DYLAN'S AMERICA, '60s CULTURE AND POLITICS (See HIS 310)/POSTWAR JAPAN (See HIS 349)

Department: History
Course: HIS 308
Title: Introduction to Labor History
Cross-listed: HIS 408
Instructor: Weaver, S.
Restrictions: Permission of Instructor
Coursework: Short papers and presentations.
Description: A graduate seminar open to selected undergraduates by permission of instructor, History 308/408 is an introduction to old and new scholarship in the field of labor history. The comparative emphasis will fall on Europe and the United States from the eighteenth century to the present. Likely topics will include: custom and craftsmanship; the industrial revolution and the standard of living debate; class and class-consciousness; women and work; the rise and fall of trade unionism; and the "languages" of labor. Reading will consist of one or two books a week. Format will be a mix of discussion and in-class presentation.

Department: History
Course: HIS 339
Title: The Civil War
Cross-listed: HIS 439/AAS 372
Instructor: Hudson, L.
Restrictions: Permission of Instructor
Coursework: Class discussions, presentations, term paper proposal, and a term paper.

Description: As is so often the case, a nation experiences profound changes during a major war. This course will examine the major events that led to the Civil War and consider the war's impact on the nation's political, social, and economic order. The course will be organized around a set of readings that suggest there existed two distinct views as to how the new nation would be organized. Once these views clashed, the nation was thrown into a bloody war the demands of which led to the incorporation of changes that had the effect of resolving the very issues that had propelled the nation into war. The readings will, therefore, suggest that not only was the Civil War inevitable but that it was a prerequisite for lasting national unity. We will examine the changing ideas about nation, place, race, and gender, and ask: did the North and South differ in their interpretations of concepts such as democracy, self-government, self-control, individualism, egalitarianism and freedom?

Department: History
Course: HIS 341
Title: Topics in the History of Ethnicity in US--Immigration
Cross-listed: HIS 441
Instructor: Gordon, L.
Restrictions: Permission of Instructor
Coursework: Students will be expected to read extensively in standard reference books and monographs, to complete 3 short (6-8pp) papers, and to lead some class discussion.

Description: This reading seminar will focus on a) the classic historiography of American scholarship on immigration and ethnicity, from Robert Park and W. J. Thomas in the 1920s through Oscar Handlin in the 1950s and 1960s to the present; b) the history of popular and political attitudes and actions for and against immigration and concerning ethnicity; c) case studies of specific emigrant groups; d) comparison of different periods of immigration - e.g. the 1880-1924 era with the present.

History

Department: History
Course: HIS 342
Title: Emergence of the Modern Congress
Cross-listed: PSC 218W/ PSC 518/HIS 342W/HIS 442
Instructor: Gamm, G. **Class Size:** 25
Restrictions: Permission of Instructor
Description: Please see PSC 218W for the course description.

Department: History
Course: HIS 355
Title: Men, Women & War in the 20th Century
Cross-listed: HIS 455/WST 355
Instructor: Pedersen, J. **Class Size:** 15
Description: Historians sometimes call the 20th century the Age of Total War. This seminar will focus on the changing lives of European men and women before, during, and after the First and Second World Wars. Special topics will include: changing images of masculinity and femininity, connections between the front and the homefront, the growth of welfare states, and the development of mass politics. Course reading will include a combination of history, autobiography, and fiction. Can be taken as a 3-credit reading course.

Department: History
Course: HIS 356
Title: Atlantic Slave Trade, 1650-1850
Cross-listed: AAS 375/W/ECO 385/W/HIS 356W/HIS 456
Instructor: Inikori, J.
Exams: Midterm and final
Description: The course begins with a general view of the level of socio-economic development in Africa by the late 15th century, relative to other major regions of the world at the time. It then proceeds to Atlantic trade and the demographic effects on Africa. The effects of the "production" of consequences of the trade in Africa are also examined. Atlantic slave trade retarded the development of capitalism in Africa between 1650 and 1850, and so creating the conditions for the imposition of European colonial domination on the continent from the late 19th century.

Judaic Studies

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

Department: Center for Judaic Studies
Course: JST 102
Title: Intermediate Yiddish
Cross-listed: YDH 102
Instructor: W. Braun
Description: Continues the work in Weinrich's "College Yiddish" with added emphasis on reading and vocabulary building. Selected examples from Yiddish lyrics and essays. Same as YDH 102.

Judaic Studies

Department: Judaic Studies
Course: JST 103
Title: Intermediate Hebrew
Cross-listed: HEB 103
Instructor: Kessler, R.
Exams: Two short essays
Coursework: One final paper Textbook: Edna Amir Coffin, "Lessons in Modern Hebrew I"
Description: Continuation of Hebrew 102 with emphasis on enhancing reading comprehension, writing and speaking skills. Several writing assignments. Same as HEB 103 (Fall)

Linguistics

Department: Linguistics
Course: LIN 101
Title: People and Their Language **Class Size:** 30
Exams: Several quizzes and a final.
Coursework: Short reading assignments, occasional problem sets, and class discussion.
Description: How do the languages that people speak reflect their cultures and their traditions? Do languages influence the way people think and perceive the world? Can children acquire a language under social conditions which provide them with no consistent language to learn? This course seeks to address such questions through case studies of languages and their cultural contexts, focusing primarily on languages of Native North America and Australia. It provides an introduction to the methods of modern linguistics, but requires no prior experience with linguistic analysis.

Department: Linguistics
Course: LIN 150
Title: Int Signed Languages of the World
Cross-listed: ASL 150
Instructor: Osugi, Y. **Class Size:** 25
Prerequisites: No sign language skills are required.
Description: An introduction to and overview of signed languages around the world, how they differ, and how they develop.

Department: Linguistics
Course: LIN 162
Title: Understanding Reading
Cross-listed: PSY 162/COG 162/BCS 162
Instructor: Tanenhaus, M. **Class Size:** 30
Description: Please see BCS 162 for the course description.

Department: Linguistics
Course: LIN 201
Title: Introduction to Linguistics
Cross-listed: COG 102 **Class Size:** 45
Exams: Several quizzes and a final exam
Description: This course is the basic introduction to the field of linguistics, the study of human languages. The course will focus primarily on how linguists describe the structure of a language -- its sounds, its words, and its sentences and how these structures are used to convey meaning. A number of other topics will be discussed as well, including: how languages change through time and techniques for exploring their histories; varieties of language in a society, such as regional dialects; the similarities and differences between animal communication systems and human languages; language and psychology-the process of comprehension, production and language learning.

Department: Linguistics
Course: LIN 202
Title: Transformational Approach to English Syntax
Cross-listed: LIN 402 **Class Size:** 30
Coursework: Every week, a homework exercise will be assigned, and class material will be put to work on a practical, real-life case.
Description: This course attempts to provide a thorough introduction to generative syntax, considering both conceptual and technical aspects. The object of study is the human language faculty; the discovery of general syntactic principles shared by all human beings (i.e. all natural languages spoken by human beings) is the major objective of syntax. We will study several of these universal principles, using English as the main data source; structural principles, such as x-bar theory; and relational principles such as government, case and binding theories. No previous knowledge of linguistics is required; basic syntactic concepts like 'constituent', 'maximal projection', 'head' etc., will be introduced from scratch.

Linguistics

Department: Linguistics
Course: LIN 203
Title: Phonology
Instructor: Moutsos, D. **Class Size:** 35
Prerequisites: LIN 201 or permission of instructor
Exams: Midterm and final; one paper
Description: Critical analysis of approaches to phonological theory, including Prague school, American structuralism, generative theory, and natural phonology.

Department: Linguistics
Course: LIN 207
Title: Phonetics
Cross-listed: LIN 407
Instructor: Moutsos, D. **Class Size:** 30
Prerequisites: LIN 201 or equivalent
Exams: Mid-term will consist of a report; final examination is oral
Description: The scope of this course is to introduce the student to the basic principles of articulatory phonetics. The mechanisms that make the production of speech sounds possible and the articulatory process constitute the core of the course. The student will learn not only how to recognize and describe in phonetic terms the speech sounds that occur in the languages of the world but also how to produce them. Tapes of speech sounds recorded by native speakers, which are available at the Multimedia Center in Rush Rhees, will be used to facilitate the acquisition of this skill which is of fundamental importance for the study of phonology.

Department: Linguistics
Course: LIN 213
Title: Phonological Theory I **Class Size:** 25
Prerequisites: LIN 203
Exams: Midterm and final
Description: Research on the nature of phonological representations and the constraints which they obey has led many phonologists to reconsider the role played by rules and derivations in the phonological systems of natural languages. This course examines contemporary alternatives to rule-based analyses, focussing on the issues which work in this area addresses and the problems which it attempts to solve. The course takes a chronological approach, looking first at the assumptions of standard models and investigating alternatives to these assumptions through close reading of original papers which have proven influential in late work.

Department: Linguistics
Course: LIN 217
Title: Psychology of Language
Cross-listed: COG 260/PSY 260/BCS 260
Instructor: Supalla, T. **Class Size:** 60
Prerequisites: PSY 101, or LIN 201, or BCS 110, or BCS 111
Exams: 2 midterms and 1 final
Description: An overview of the nature and processing of human languages, including comparisons between language and animal communication systems, a consideration of the biological bases of human language, and discussion of the cognitive mechanisms used in producing and understanding language.

Department: Linguistics
Course: LIN 233
Title: Introduction to Romance Languages
Cross-listed: LIN 433
Instructor: Carlton, C. **Class Size:** 20
Prerequisites: Knowledge of basic principles of linguistics or of a Romance language.
Description: Introduction to the Romance languages, major and minor, their history, and their structure. Reference to their current geopolitical significance.

Linguistics

Department: Linguistics
Course: LIN 241
Title: Linguistic Structure of French
Cross-listed: FR 208
Instructor: Carlton, C. **Class Size:** 30
Prerequisites: FR 103 or FR 105 recommended or permission of instructor.
Exams: Final exam is oral and is taken individually with the professor
Coursework: Mid-term consists of a report, usually given in class, of a book chosen with the approval of the teacher.
Description: Analysis of contemporary French, with emphasis on the phonetic/phonological system; plus some attention to morpho-phonemics. Student reports may deal with any aspect of French, the sound system, morphology, syntax, the lexicon, externals.

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
Exams: Two or three hourly exams and a final
Coursework: Homework and quizzes
Description: This course consists of a brief review of pre-calculus mathematics including algebra, trigonometry, exponentials, and logarithms, followed by functions, limits, derivatives, definite integrals and applications.

Department: Mathematics
Course: MTH142
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 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. Mean value theorem, maxima and minima, curve plotting. The fundamental theorem of calculus, with geometric and physical applications.

Mathematics

Department: Mathematics
Course: MTH 161Q
Title: Quest Calculus IA
Prerequisites: This course is principally for freshmen. First choice for positions in this section are given to students applying during the spring
Restrictions: Placement needed for first-time registration
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, l'Hopital's rules, infinite series, Taylor's series in one variable. plane curves, parametric equations, vectors in two and three dimensions, lines and planes, vector-valued functions, velocity and acceleration, arc length, curvature. Partial differentiation, directional derivatives, extrema in several variables.

Department: Mathematics
Course: MTH 162Q
Title: Quest Calculus IIA
Prerequisites: Quest Calculus IA
Exams: Three-four exams and a final
Description: This is the second semester of the Quest version of MTH 161-162 which places emphasis on understanding concepts as well as on learning techniques. Homework includes more challenging and occasionally more theoretical problems. Students contemplating majoring in mathematics as well as others desiring a strong foundation in calculus are encouraged to take this course or the honors calculus course. The Quest versions of MTH 161-2 are considered to be year-long courses; both semesters will be taught by the same professor and students are strongly encouraged to stay with the same professor for the entire year. The course introduces the techniques of the differential and integral calculus of functions; reinforces algebraic manipulation and trig techniques learned in high school; provides tools for use in other disciplines; uses proofs to help make the techniques a coherent whole rather than a set of isolated tricks; rigorous proofs. Topics covered: analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverse and composites. Their graphs, derivatives, and integrals. Mean value theorem, maxima and minima, curve plotting. The fundamental theorem of calculus, with geometric and physical applications.

Department: Mathematics
Course: MTH 163
Title: Differential Equations
Prerequisites: MTH 162 or MTH 143
Exams: Hourly exams and a final
Coursework: Homework and weekly quizzes
Description: Ordinary differential equations, basic theory and methods of solutions for first order and higher order linear equations; power series solutions and Laplace transform methods. 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.

Mathematics

Department: Mathematics
Course: MTH 163
Title: Ordinary Differential Equations (with Biology)
Instructor: Greenleaf, A.
Prerequisites: MTH142 or MTH162 or MTH172
Exams: Two or three exams and a final
Description: This course is similar to MTH163, but covers somewhat different topics, with an emphasis on qualitative analysis of examples drawn from the biological and social sciences. Topics include: Introduction to ODEs. Closed form solutions of various classes of first order ODEs. Qualitative theory of a single first order ODE: integral curves, equilibria and stability. Second order ODE: Constant coefficient equations and applications. Variable coefficient and higher order equations. Two-by-two systems of first order ODEs: Basic linear examples. Nonlinear systems: equilibria and qualitative study via method of isoclines. Examples from population dynamics: predator-prey system and competing two-species system; principle of competitive exclusion. Although oriented towards biological and social science majors, MTH163B will be an adequate introduction to ODEs for students majoring in any field.

Department: Mathematics
Course: MTH 164
Title: Multidimensional Calculus
Prerequisites: MTH 143, MTH 162, or MTH 172
Exams: 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 161 and 162
Exams: Two or three hourly exams and a final
Description: Matrices, vector spaces and linear transformations, eigenvalues and eigenvectors, first-order differential equations, constant coefficient linear equations, systems of equations, applications to science, engineering, and computer science.

Department: Mathematics
Course: MTH 171Q
Title: Honors Calculus I
Restrictions: Placement needed for first-time registration
Description: This is the first semester of the honors calculus sequence, covering the material from MTH 161, MTH 162, MTH 163, and MTH 164 in greater depth from the standpoint of both theory and applications. Students completing this sequence successfully will have met the requirements of MTH 235 and can begin taking upper level courses immediately.

Department: Mathematics
Course: MTH 173Q
Title: Analysis IIIA
Instructor: Cohen, F.
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 201
Title: Introduction to Probability
Prerequisites: MTH 141/MTH 142/MTH 143/MTH 161/MTH 162/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.

Mathematics

Department: Mathematics
Course: MTH 202
Title: Intro. to Stochastic Processes
Prerequisites: MTH 201/STT 201 or equivalent
Restrictions: Placement needed for first-time registration
Coursework: Three hours of lectures, and a weekly problem set
Description: This course covers the Poisson process, discrete-time random walks and Markov chains, and renewal theory. Special cases such as birth and death processes, and queuing processes, are also discussed. Time permitting, continuous-time Markov chains will be introduced. It is taken mainly by statistics and mathematics majors, and together with MTH 201/STT 201, provides a solid mathematical foundation in probability and stochastic processes.

Department: Mathematics
Course: MTH 208
Title: Methods of Operation Research (MOR)
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 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).

Department: Mathematics
Course: MTH 220
Title: Discrete Mathematics
Description: Introduces some of the basic mathematical ideas used in computer science. Simplifying and solving simple recurrences, including linear recurrences, perturbation methods, Towers of Hanoi, turning sums into recurrences and recurrences into sums, calculus of variations, generating functions, using formal power series over monoids to solve certain graphical recurrences, Bernoulli numbers, using formal power series to solve numerical recurrences. Required for Computer Science majors.

Department: Mathematics
Course: MTH 230
Title: The Theory of Numbers
Class Size: 30
Description: The theory of numbers is a broad subject with many connections to other parts of mathematics as well as to computer science, physics, and cryptography. It is the study of the properties of the natural numbers. Partial list of topics to be covered: Divisibility theory and Euclid's algorithm, the theory of congruences, The distribution of prime numbers, primitive roots, the law of quadratic reciprocity, sums of squares, factoring and primality testing, public key cryptosystems.

Department: Mathematics
Course: MTH 235
Title: Linear Algebra
Prerequisites: MTH 163
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, 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 250
Title: Introduction to Geometry
Description: Foundations of geometry, isometry, similarity, inversions; introduction to affine, projective, and various non-Euclidean geometries.

Department: Mathematics
Course: MTH 255
Title: Differential Geometry I
Prerequisites: MTH 164/MTH 174
Description: Torsion, curvature, the differential geometry of curves and surfaces in 3-space.

Mathematics

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 281
Title: Introduction to Fourier Analysis
Cross-listed: ME 201
Prerequisites: MTH 163 and MTH 164 or MTH 174.
Description: Fourier Series and convergent theorems. Orthogonal polynomials. Applications to partial differential equations. Fourier transforms.

Department: Mathematics
Course: MTH 310
Title: Mathematical Problems and Ideas
Description: This seminar addresses topics which are not normally covered in undergraduate math courses: famous problems which are part of mathematical culture, surprising and curious ideas, some topics from current mathematical research, and some of the phenomena which are responsible for the "unreasonable effectiveness of mathematics". Techniques and ideas of problem-solving will be discussed throughout the course. There are no prerequisites, and the course is open to students at all levels who have a serious interest in mathematics.

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 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: Ding, D. **Class Size:** 20
Exams: 3 tests, biweekly quizzes & listening comprehension exercises
Description: Introduction to the pronunciation of standard Chinese. Basic structure of the language and vocabulary will be emphasized in this semester. The method will be aural-oral, and as much time as possible will be devoted to practicing and responding to simple dialogues and materials which exhibit important aspects of standard Chinese.

Department: Modern Languages & Cultures -- Chinese
Course: CHI 105
Title: Intermediate Chinese I
Instructor: Ding, D. **Class Size:** 20
Prerequisites: CHI 102 or permission of instructor
Exams: 3 tests plus quizzes & comprehension exercises
Description: Continuation of CHI 102, with increasing emphasis placed upon developing speaking, reading and writing skills utilizing the structure and vocabulary in Chinese characters.

Modern Languages & Cultures - Comparative Literature

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 102
Title: True Lies: 20th Century Fiction of Gender and Race
Cross-listed: CLT 102W
Instructor: Smith, E.
Description: This course will interrogate and rethink the categories of race and gender, using 20th-century fiction, film, and critical essays. As the title suggests, the course examines gender and race as simultaneously real and unreal. We will investigate the ways in which our understanding of race and gender are mediated by language, i.e. by our culture's narration (in a broad sense) of the reality and significance of those categories. Related issues we will explore include "life scripts" and identity formation, narrative frames, narration as power, and the production of the "normal," the "natural," and the "authentic." Reading and viewing will include Muriel Spark's "The Bluest Eye," Alice Walker's "Everyday Use," and a recent popular film selected by students.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 102
Title: Pornography, Censorship and Speech
Cross-listed: CLT 102W/402/WST 166/166W/FS 102/102W
Instructor: DiPiero, T./Willis, S.
Description: Should pornography be considered protected speech? If so, what are the cultural consequences of that protection? Should certain forms of representation be censored, and if so, how would these decisions be made? By examining a variety of representations from print and visual cultures, we will analyze competing definitions of pornography and their implications for our cultural context. We will also analyze the rights and responsibilities inherent in the notion of free speech. How might differences of gender or sexuality affect the way we produce and consume pornography? Can pornography shed any light on our current social and political conflicts? What is the nature and power of fantasy? Readings will include works by such writers as the marquis de Sade, Andrea Dworkin, Catherine MacKinnon, Judith Butler, Kobena Mercer, Stanley Fish, Pat Califia, and others.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 190Q
Title: Dante's Divine Comedy: A Journey from the Inferno to Paradise
Cross-listed: IT 190Q/REL 190Q
Instructor: Stocchi-Perucchio, D.
Description: Please see IT 190Q for description

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 192Q
Title: Tolstoy's War and Peace as Novel, History and Film
Cross-listed: RUS 190Q/RST 190Q
Instructor: Parthe, K.
Description: Please see RUS 190Q for description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 196Q
Title: Tokyo: The Making of a Modern City
Cross-listed: JPN 196Q/AH 196Q/HIS 194Q
Instructor: Pollack, D.
Description: Please see JPN 196Q for description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 220
Title: Introduction to Cultural Studies
Instructor: Hope, T.
Description: Introduces the investigation of theories of culture and questions about identity and alterity in critical discourse and explores the relationship between high culture and popular culture.

Modern Languages & Cultures - Comparative Literature

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 223
Title: Decadence, Degeneration and the Nineteenth-Century Imaginary
Cross-listed: CLT 223W/423/FR 253/253W/453/GER 277/277
Instructor: Hope, T.
Description: Through close reading of French, British and German prose fiction and of examples of medical, anthropological and philosophical thought, we shall examine the social significance of discourses of disease, decadence and degeneration from the late eighteenth to the early twentieth century. How is bodily pathology linked to the construction of "national" bodies? How does perversion emerge at the core of theories of heredity and genealogy that traverse Europe's colonial scenes? What is the relationship between symptoms and texts, between sickness and subversion, in the mapping of gender, class and race onto the body? The course material will include readings from Jean-Jacques Rousseau, Alexandre Dumas fils, Edgar Allan Poe, Honore de Balzac, Arthur Schopenhauer, Friedrich Nietzsche, Sigmund Freud, Max Nordau, Havelock Ellis, Radclyffe Hall and Thomas Mann. Students may read texts in the original or in translation.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 229
Title: Sexuality and Gender in German Cinema
Cross-listed: GER 249/449/CLT 229W/429/FS 229/229W/WST
Instructor: Halle, R.
Description: Please see GER 249 for description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 245
Title: Brecht: Aesthetics and Ideology
Cross-listed: GER245/GER 445/CLT 445
Instructor: Herminghouse, P.
Description: Please see GER 245 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 248
Title: Politics of Identity
Cross-listed: CLT248W/LIT248/RUS248/W/HIS241/W/JST248
Instructor: Parthe, K.
Description: Please see RUS 248 for the course description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 260
Title: Kristeva
Cross-listed: CLT 260W/460/WST 396/FR 268/468
Instructor: Gustafson, S.
Description: This course surveys Kristeva's writings in terms of their implications for psychoanalysis, feminism, ethics, the politics of identity/difference, and cultural studies (literary, visual, etc.). Particular attention will be devoted to the question of Kristeva's embattled relationship to feminism (specifically the import of her ideas on the semiotic chora, motherhood/pregnancy, herethics, the phallic mother, non-essentialism, difference, and gay/lesbian sexuality). Readings include: "Revolution in Poetic Language (selections)," "Desire in Language," "Tales of Love," "Black Sun," "Strangers to Ourselves," "Powers of Horror," "Kristeva Reader," and "Old Man and the Wolves."

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 262
Title: Superfluous Men & Superior Women
Cross-listed: RUS 262/262W/WST 267/267W/CLT 262W/462
Instructor: Givens, J.
Description: Please see RUS 262 for the course description.

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 276
Title: New Japanese Directors
Cross-listed: CLT 276W/CLT 476/JPN 293/JPN 293W/FS 293
Instructor: Bernardi, J.
Description: Please see JPN 293 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 279
Title: Contemporary French Cinema
Cross-listed: CLT 279W/479/FR 279/279W/479/FS 279/279W
Instructor: Willis, S.
Description: Please see FR 279 for description.

Modern Languages & Cultures - Comparative Literature

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 282
Title: Freud: An Introduction
Cross-listed: GER 206/206W/406/CLT 282W/482
Instructor: Gustafson, S.
Description: Please see GER 206 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 294
Title: Spanish Film
Cross-listed: CLT 294W/494/SP 294/294W/494/FS 294/294W
Instructor: Schaefer, C.
Description: Please see SP 294 for description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 298
Title: Japanese Animation
Cross-listed: CLT 298W/408/JPN 292/292W/FS 298/298W
Instructor: Bernardi, J.
Description: Please see JPN 292 for description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 299
Title: The Modern Japanese Novel
Cross-listed: CLT 299W/JPN 252/252W
Instructor: Pollack, D.
Description: Please see JPN 252 for description.

Department: Modern Languages & Cultures - Comparative Literature
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.

Modern Languages & Cultures -- French

Department: Modern Languages & Cultures -- French
Course: FR 101
Title: Elementary French I
Instructor: Lutkus/Staff
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.

Class Size: 25

Department: Modern Languages & Cultures -- French
Course: FR 102
Title: Elementary French II
Prerequisites: FR 101 or equivalent
Exams: occasional quizzes; final exam
Description: French 102 continues the work of the beginning course. There is an additional emphasis on reading comprehension and vocabulary building.

Class Size: 25

Department: Modern Languages & Cultures -- French
Course: FR 103
Title: French Review
Instructor: Douchin, A
Prerequisites: FR 102 or equivalent
Description: FR 103 is designed to help students learn to communicate in French. It builds on basic speaking and comprehension skills learned in high school courses or in introductory college course. A modern French video series is an integral part of the course. Readings and class materials come from a variety of sources, both literary and journalistic.

Class Size: 75

Modern Languages & Cultures -- French

- Department:** Modern Languages & Cultures -- French
Course: FR 104
Title: Conversational French (2 credits) **Class Size:** 15
Prerequisites: FR 103 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 105 or FR 106 and may be taken twice for credit.
- Department:** Modern Languages & Cultures -- French
Course: FR 105
Title: Intermediate French I **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 readings techniques. The particular focus of FR 105 is the geography of France.
- Department:** Modern Languages & Cultures -- French
Course: FR 106
Title: Intermediate French II
Instructor: Kemedjio, C. **Class Size:** 15
Prerequisites: FR 105, or ETS score of 550
Exams: Quizzes, compositions, final exam
Description: A continuation of French 105, this course further develops language skills in the context of readings on French culture and literature. The particular focus of FR 106 is the history of France and some contemporary issues in French society. A major work of literature will be read in its entirety.

- Department:** Modern Languages & Cultures -- French
Course: FR 200
Title: Advanced French I
Instructor: DiPiero, T. (Fall 96), Kemedjio, C. (Spring 97) **Class Size:** 20
Prerequisites: FR 106 or equivalent
Description: Intensive practice in reading, writing, and speaking French, based on rigorous grammar review and on close readings of literary and cultural texts. Classroom work emphasizes grammar, speaking, reading and writing French.

- Department:** Modern Languages & Cultures -- French
Course: FR 204
Title: Advanced French Conversation **Class Size:** 15
Prerequisites: FR 104/FR 200 or Permission of Instructor
Description: French 204 is an advanced conversation course limited in enrollment to insure maximum student participation. The "text" under discussion will be aspects of modern France as represented by videos of televised French news programs and contemporary French films. Discussions and oral presentations in French.

- Department:** Modern Languages & Cultures -- French
Course: FR 205
Title: Contemporary French and Francophone Culture
Cross-listed: FR 405
Instructor: Kemedjio, C.
Description: An introduction to the social structures, institutions, and value systems which make up contemporary French and Francophone societies. Analysis of their manifestations in contemporary political structures and events, philosophy, art, film, the media, etc.

- Department:** Modern Languages & Cultures -- French
Course: FR 208
Title: Structure of French
Cross-listed: FR 408/LIN 241/LIN 441
Instructor: Carlton, C.
Description: Please see LIN 241 for the course description.

Modern Languages & Cultures -- French

Department: Modern Languages & Cultures -- French
Course: FR 252
Title: Realism & Ideology in the Novel
Cross-listed: FR 452/CLT 272/472
Instructor: Willis, S.
Description: This course will cover the work of three authors - Flaubert, Balzac, and Zola. We will examine the competing theories of realism that prevail in the 19th century and the political ideologies that underlie them. Through close textual analysis, we will explore the shifting concepts of style, history, authority, and representation that characterize these novels. Critical readings will include major modern and contemporary discussions of realism and literary ideology. Some reading knowledge of French useful, but not required. All texts will be available in English.

Department: Modern Languages & Cultures -- French
Course: FR 253
Title: Decadence, Degeneration and the Nineteenth-Century Imaginary
Cross-listed: FR 253W/453/CLT 223/223W/423/GER 277/277
Instructor: Hope, T.
Description: Please see CLT 223 for course description.

Department: Modern Languages & Cultures -- French
Course: FR 268
Title: Kristeva
Cross-listed: FR 468/CLT 260/260W/460/WST 396
Instructor: Gustafson, S.
Description: Please see CLT 260 for course description.

Department: Modern Languages & Cultures -- French
Course: FR 279
Title: Contemporary French Cinema
Cross-listed: FR 468/CLT 279/479/FS 287
Instructor: Willis, S.
Description: Through close analysis of popular film, this course will explore contemporary French culture as it reworks national identity. Focusing on changing definitions of "Frenchness," we will examine its articulations with shifting conceptions of tradition, of the popular, and of the nation. We will read central cultural conflicts around identity and difference in the context of the emergent European economic community, as well as the specifically French context of "immigration" and "assimilation." Of particular interest, for our purposes, will be comparative analysis of French and US popular discourses on social issues involving sexuality and gender, race, ethnicity, and "multiculturalism." Films will include works by Luc Moullet, Bertrand Blier, Luc Besson, Andre Techine, Cyril Collard 'Savage Nights', Mathieu Kassovita 'Hate', Claire Denis, Ahmed Bouchaala 'Krim', as well as recent works by such widely known "auteurs" as Claude Chabrol and Jean-Luc Godard.

Modern Languages & Cultures -- German

Department: Modern Languages & Cultures -- German
Course: GER 100
Title: Accelerated German (6 credits) **Class Size:** 20
Description: A full first-year German course taught in one semester, using the new "interactive" materials of the 101-102 sequence. Meets twice a week for 150 minutes. This course has been described as the "Porsche of German courses": for the motivated student who wants high-speed progress.

Modern Languages & Cultures -- German

Department: Modern Languages & Cultures -- German
Course: GER 101
Title: Elementary German I
Instructor: Asher, E.
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 that enables students to speak and write right from the start. The textbook, based on an "inductive" rather than "deductive" way of learning, is a real "mystery," written by one of Germany's foremost authors. Learning German becomes an adventure as students attempt to solve the mystery of the textbook, engage actively with the language in the workbook and listen to the audio-tapes which are at the heart of this listening- based approach.

Department: Modern Languages & Cultures -- German
Course: GER 105
Title: Intermediate German I
Instructor: Asher, E. **Class Size:** 15
Prerequisites: GER 105 or permission of instructor
Exams: 4-5 quizzes, final exam
Description: "Die Suche," the mystery of 101-102 continues, using a brand-new text. The sequel is written by another well-known author, Peter Schneider, and is also geared to preparation for the "Zertifikat Deutsch als Fremdsprache" exam offered in the spring.

Department: Modern Languages & Cultures -- German
Course: GER 200
Title: Advanced German
Instructor: Heringhouse, P. **Class Size:** 15
Prerequisites: GER 106 or equivalent
Exams: Midterm and final
Description: This class assumes enough knowledge of the language for reading somewhat longer fictional and nonfictional texts (initially 2-4 pages) and viewing German films in the original. The class is organized around general topics and themes. Students will write weekly essays in German on select topics.

Department: Modern Languages & Cultures -- German
Course: GER 203
Title: Introduction to German Literature
Instructor: Halle, R. **Class Size:** 15
Prerequisites: GER 106 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. Foci include: basic terminology and basic reading strategies, as well as methods of interpretation such as: structural-generic analysis, semiotics, psychoanalysis and feminism. Topics raised by the literature read in this course (among others) are: nature, gender, race, violence, matricide, love, sex, and insanity.

Department: Modern Languages & Cultures -- German
Course: GER 206
Title: Freud: An Introduction
Cross-listed: CLT 282/CLT 282W
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 regard to significant criticisms of his work. "Freud: An Introduction" is part of a cluster which includes courses on Marx and Nietzsche (these courses need not be taken in any particular order).

Department: Modern Languages & Cultures -- German
Course: GER 222
Title: Readings in German I **Class Size:** 15
Prerequisites: GER 106 or equivalent
Restrictions: Permission of Instructor Required
Description: Readings in German to accompany enrollment in upper-level courses on German-related topics taught in English.

Modern Languages & Cultures -- German

Department: Modern Languages & Cultures -- German
Course: GER 245
Title: The Dramatic Legacy of Brecht
Cross-listed: GER 445, CLT 245, CLT 445
Instructor: Herminhouse, P.
Description: Works by the most important playwright of the twentieth century will be read and discussed in juxtaposition to an earlier tradition of writers whose theory and practice likewise challenge the social order. We will examine critically his famous theories of drama and some of the recent debates about Brecht's importance to contemporary culture as well as read some modern writers who take up the Brechtian challenge. Includes some films and videos of theater performances.

Department: Modern Languages & Cultures -- German
Course: GER 249
Title: Issues in Contemporary German Cinema: Queer Film
Cross-listed: GER 249W/449/CLT 229/229W/429/FS 229/229
Instructor: Halle, R.
Description: The course will take as its object German film in order to examine how gender and sexuality are historically and socially constructed. We will use various methods to query a diverse group of films: cultural debates, social history, and, especially, theoretical works from feminist and queer film studies. While focusing on German film, the students will also gain insights into broader questions of narration, identity formation, power relations, and social movements.

Department: Modern Languages & Cultures -- German
Course: GER 277
Title: Decadence, Degeneration and the Nineteenth-Century Imaginary
Cross-listed: GER 277W/477/CLT 223/223W/423/FR 253/253
Instructor: Hope, T.
Description: Please see CLT 223 for course description.

Modern Languages & Cultures -- Italian

Department: Modern Languages & Cultures -- Italian
Course: IT 101
Title: Elementary Italian I
Instructor: O'Keefe, L. **Class Size:** 45
Prerequisites: IT 101 or permission of instructor
Exams: Four quizzes, midterm, final
Description: A thorough grounding is given in all the language skills: listening, speaking, reading and writing. Language practice is in small groups. Lectures cover grammar and cultural information. Intended for beginners or students placed by examination. There is an obligatory recitation section twice a week in addition to the main class and the multimedia center work (1 hour per week).

Department: Modern Languages & Cultures -- Italian
Course: IT 104
Title: Conversational Italian (2 credits)
Instructor: Cocco-Crane, R. **Class Size:** 15
Prerequisites: IT 102 or equivalent
Description: Conversation course designed to help students develop facility with the spoken language. Emphasis is on vocabulary-building; class time is given to debate, discussions, and conversations about current topics and Italian culture.

Department: Modern Languages & Cultures -- Italian
Course: IT 105
Title: Intermediate Italian I **Class Size:** 15
Prerequisites: 2 semesters of college-level Italian or ETS score of 500
Exams: Six quizzes; 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, and discussion include literature, history, film, and popular culture.

Modern Languages & Cultures -- Italian

Department: Modern Languages & Cultures -- Italian
Course: IT 190Q
Title: Dante's Divine Comedy: A Journey from the Inferno to Paradise
Instructor: Stocchi-Perucchio, D.
Description: This course aims at familiarizing freshman with one of the most significant texts in Western Culture. Through Dante's text, students will gain a perspective on the Biblical, Christian, and Classical traditions as well as on the political, literary, philosophical, and theological context of medieval Europe. The course will also provide students with an avenue of investigation on the problems of knowledge, and guide them in developing critical tools and research skills.

Department: Modern Languages & Cultures -- Italian
Course: IT 200
Title: Topics in Italian Culture and Advanced Italian Language
Prerequisites: Advanced Italian
Description: Designed for students who already have a basic knowledge of spoken and written Italian, this course addresses different aspects of modern and contemporary Italian culture emphasizing, at the same time, the usage of Italian language. Topics may include politics, economics, mass media, intellectual life, education, popular culture: as well as the ethnic, economic, and cultural relations between Italy and Eastern Europe, Asia, Africa, the European Community, and the United States.

Modern Languages & Cultures -- Japanese

Department: Modern Languages & Cultures -- Japanese
Course: JPN 101
Title: Beginning Japanese I
Instructor: Shino, F. **Class Size:** 60
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. 6 credits.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 104
Title: Elementary Conversational Japanese
Instructor: Tamate, M.
Prerequisites: Japanese 102 or equivalent
Description: Emphasis on speaking skills with focus on current issues in Japanese culture and society. May be taken concurrently with Japanese 105 or 106. This is a two-credit course which may be taken twice for credit.

Modern Languages & Cultures -- Japanese

Department: Modern Languages & Cultures -- Japanese
Course: JPN 105
Title: Intermediate Japanese I
Instructor: Tamate, M. **Class Size:** 35
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 to be 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 regular assignments, and language lab. Text: Japanese: The Spoken Language Part 2 by E. Jordan and M. Noda (Yale University Press). Video and audio tapes are frequently used. 6 credits.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 196Q
Title: Tokyo: The Making of a Modern City
Cross-listed: CLT 196Q/AH 196Q/HIS 194Q
Instructor: Pollack, D.
Description: This course examines in detail how the city of Tokyo got to be the way it is today. With its extraordinary speed, density, variety, and interconnectedness, present-day Tokyo is the world's pre-eminent post-modern city, as much a virtual construction as a "real" place. As such, it asks to be studied as a virtual phenomenon in cyberspace, where much of its contemporary existence glows, as well as in the usual books, articles, maps, records, videos, film, and art images. Among other questions to be investigated: What makes a city livable? exciting? human? What makes the greater Tokyo metropolitan area home to its 28 million inhabitants?

Department: Modern Languages & Cultures -- Japanese
Course: JPN 202
Title: Modern Japanese Prose I
Instructor: Tamate, M. **Class Size:** 20
Prerequisites: JPN 106 or instructor's permission
Exams: unit quizzes, oral 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. Listening and speaking skills will be improved through assignments based upon audio tapes, discussion, and role-playing in Japanese. Reading skills will be improved through reading of various "raw" materials.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 204
Title: Advanced Conversational Japanese (two credits)
Instructor: Tamate, M. **Class Size:** 20
Prerequisites: JPN 106 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 220
Title: Advanced Modern Japanese Prose I
Instructor: Tamate, M. **Class Size:** 15
Prerequisites: JPN 203 or equivalent
Description: This course covers various aspects of contemporary Japanese culture as found in magazines, journals, television, film and videos.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 252
Title: The Modern Japanese Novel
Cross-listed: JPN 252W/CLT 299/299W
Instructor: Pollack, D.
Description: A survey of the Japanese novel spanning the twentieth century. Topics include Meiji modernism, Taisho liberalism, the war years, the postwar and recovery, internationalism, and postmodernism. Short papers and final exam.

Modern Languages & Cultures -- Japanese

Department: Modern Languages & Cultures -- Japanese
Course: JPN 292
Title: Japanese Animation (Anime)
Cross-listed: JPN 292W/CLT 298/298W/408/FS 298/298W
Instructor: Bernardi, J.
Description: An exploration of Japanese popular culture through the world of anime. Films cover a wide range of subgenres, from Hayao Miyazaki's 'The Castle of Cagliostro' to more recent works including 'Akira' (cyberpunk), 'Silent Mobius' and 'Neo-Tokyo' (futuristic manga adaptations), 'Robot Carnival' (battling robots, androids), 'Grave of the Fireflies' (postwar nostalgia). Discussions will address issues of landscape (city vs. "furusato"), period, fantasy, gender (male, female, androgyne), racism (self vs. other), cultural anxiety. Screenings will be held in tandem with an anime series at the George Eastman House.

Department: Modern Languages & Cultures -- Japanese
Course: JPN 293
Title: New Japanese Directors
Cross-listed: JPN 293W/CLT 276/CLT 276W/CLT 476/FS293
Instructor: Bernardi, J. **Class Size:** 30
Description: Analysis of contemporary Japanese film from the New Wave to the present, with an emphasis on works of the 1980s and 1990s. Special attention is given to the representation of gender and national difference and the role of Japanese film in world cinema. Screenings will include the work of Itami Juzo, Hayashi Kaizo, Oguri Kohei, Morita Yoshimitsu, Ishii Sogo, Sawai Soichiro, and Obayashi Kazuhiko. SCREENING MONDAY AT 7:40 p.m.

Modern Languages & Cultures -- Polish

Department: Modern Languages & Cultures -- Polish
Course: POL 101
Title: Elementary Polish I
Instructor: Hauser, E.
Description: Introduction to modern Polish and basic vocabulary.

Department: Modern Languages & Cultures -- Polish
Course: POL 103
Title: Polish Review
Instructor: Hauser, E.
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.

Modern Languages & Cultures -- Russian

Department: Modern Languages & Cultures -- Russian
Course: RUS 101
Title: Elementary Russian I
Instructor: Givens, J. **Class Size:** 40
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 105
Title: Intermediate Russian I **Class Size:** 25
Prerequisites: RUS 102 or equivalent
Exams: two hour tests and final exam
Coursework: weekly vocabulary dictations
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. A variety of literary and non-literary texts will be read and discussed.

Department: Modern Languages & Cultures -- Russian
Course: RUS 190Q
Title: Tolstoy's
Cross-listed: RST 190Q/CLT 192Q
Instructor: Parthe, Kathleen
Description: We will explore the world of "War and Peace," reading the novel in translation, and examining other novels, histories, and the film versions.

Modern Languages & Cultures -- Russian

Department: Modern Languages & Cultures -- Russian
Course: RUS 223
Title: Readings in Russian II
Prerequisites: RUS 106 or equivalent.
Description: Readings in Russian to accompany enrollment in upper-level courses on Russian-related topics taught in English.

Department: Modern Languages & Cultures -- Russian
Course: RUS 248
Title: Politics of Identity: Russians, Poles, Jews, and Communists
Cross-listed: RUS248W/CLT248/248W/JST248/W/HIS 241/241
Instructor: Parthe, K.
Coursework: Four essays (4-5 pages each)
Description: This course examines how culture, ethnicity, and politics intersect in 20th-century Russian literature. We begin with excerpts from Dostoevsky's "Diary of a Writer," sacralizing Russianness and demonizing Jews. Political and artistic avant-gardes 1900-1930 are analyzed for their attempts to overcome traditional ethnic divisions. In Stalin's Russia an international Socialist identity was replaced by a Russian state culture, which put "cosmopolitanism" on trial after World War II. A secular Russian cultural identity was the norm until the state withdrew from the cultural sphere in the late 1980s, but Russian Jewish emigre literature was available to many readers through unofficial channels. We end with the battle of competing identities in post-1985 Russia. Readings include: Dostoevsky, Babel, Grossman, Mandelstam, Pasternak, Roziner, Tertz, Markish, Rasputin, and Brodsky.

Department: Modern Languages & Cultures -- Russian
Course: RUS262
Title: Topics in 19th Century Russian Literature: Superfluous Men, Superior Women
Cross-listed: RUS 262W/CLT 262/CLT 462/WST 270
Instructor: Givens, J.
Coursework: Two 4-5 page papers; One 8-10 page paper
Description: Two distinct character types emerge in Russian literature of the 19th century: the superfluous man and the superior woman. Men full of talent and ambition but unable to act on their intentions and therefore doomed to inactivity are juxtaposed to women who are emotionally and morally their superiors, and whose strength, courage, and willingness to take action show up their male counterparts. What is paradoxical about this outcome is that these characters were the creation of male writers, who dominated the Russian literary scene of the 19th century. There were, for example, no Russian Jane Austens, Charlotte and Emily Brontes, or George Eliots, whose reputation or recognition rivaled that of their male peers. Heroines and their point of view in Russian literature were essentially the product of male imaginations. The sources and consequences of this paradox and its roots in the issues of gender, Russian national identity and the ideology of idealization will be at the center of our investigation of works by some of the best known writers of 19th century Russian literature such as Pushkin, Lermontov, Gogol, Goncharov, Turgenev, Dostoevsky, Chernyshevsky, Tolstoy, and Chekhov.

Department: Modern Languages & Cultures -- Russian
Course: RUS 268
Title: Advanced Literature and Culture in Original **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 290
Title: Topics in Advanced Russian
Description: Intensive work in various topics in Russian grammar and syntax at the advanced level with emphasis on practical applications.

Modern Languages & Cultures - Russian Studies

Department: Modern Languages & Cultures - Russian Studies
Course: RST 171
Title: History of Imperial Russia
Cross-listed: HIS 151
Instructor: Meehan, B.
Description: Please see HIS 151 for the course description.

Department: Modern Languages & Cultures - Russian Studies
Course: RST 190Q
Title: Tolstoy's "War and Peace"
Instructor: Kathleen Parthe
Description: Please see RUS 190Q for description.

Department: Modern Languages & Cultures - Russian Studies
Course: RST 240
Title: Soviet Secret Police: 1917-1991
Cross-listed: HIS 240
Instructor: Burds, J.
Description: Please see HIS 240 for the course description.

Department: Modern Languages & Cultures - Russian Studies
Course: RST 248
Title: Politics of Identity
Cross-listed: CLT 248/248W/448/RUS 248/248W/HIS 241/24
Instructor: Parthe, K.
Description: Please see RUS 248 for course description.

Department: Modern Languages & Cultures - Russian Studies
Course: RST 262
Title: Superfluous Men Superior Women
Cross-listed: CLT 262/262W/WST 270/270W/RUS 262/262W/R
Instructor: Givens, J.
Description: Please see RUS 262 for course description.

Modern Languages & Cultures -- Spanish

Department: Modern Languages & Cultures -- Spanish
Course: SP 101
Title: Elementary Spanish I
Instructor: Kouroublakis, B. **Class Size:** 25
Restrictions: Placement needed for first-time registration
Exams: Frequent quizzes, midterm, final
Description: Intended for students with no background in Spanish, or whose background does not make placement in a higher-level Spanish course advisable. Training in speaking, comprehension, reading and writing through classroom instruction and recitation periods. Students must also register for the associated recitation section.

Department: Modern Languages & Cultures -- Spanish
Course: SP 102
Title: Elementary Spanish II **Class Size:** 25
Prerequisites: SP 101 or equivalent
Restrictions: Placement needed for first-time registration
Exams: Frequent quizzes, midterm, final
Description: Spanish 102 continues the work of the beginning course Spanish 101. There is an added emphasis on reading comprehension and vocabulary building. Students must also register for the associated recitation session.

Department: Modern Languages & Cultures -- Spanish
Course: SP 105
Title: Intermediate Spanish I
Instructor: Kouroublakis, B. **Class Size:** 20
Prerequisites: ETS score of 500 or Permission of the Instructor
Exams: 3 partial exams
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.

Department: Modern Languages & Cultures -- Spanish
Course: SP 106
Title: Intermediate Spanish II
Instructor: ter Horst, R. **Class Size:** 20
Prerequisites: SP 105 or equivalent
Exams: 2-3 exams, compositions
Description: Continuation of SP 105. Intended to advance conversational skills, provide an introduction to the reading of Spanish literature, and refine writing skills.

Modern Languages & Cultures -- Spanish

Department: Modern Languages & Cultures -- Spanish
Course: SP 200
Title: Advanced Spanish Language
Instructor: ter Horst, R./Jorgensen, B. **Class Size:** 20
Prerequisites: SP 105, SP 106 or equivalent
Exams: Midterm, final, 2 exams
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 equally divided between an intensive study of selected topics in grammar at an advanced level, and a variety of readings in Hispanic literature. Required written work includes four compositions and rewrites, and a final essay of 4-5 pages.

Department: Modern Languages & Cultures -- Spanish
Course: SP 201
Title: Advanced Spanish for Native Speakers **Class Size:** 20
Exams: Midterm, in-class presentation
Description: This course is designed for students whose first language is Spanish and/or those who are bilingual. The primary goal of the course is to assist students in moving from an informal Spanish writing style to the academic expository writing expected in upper-level literature, culture, and linguistic courses. We will devote class time to analyzing the texts on which composition work is based, including journalistic selections, literary pieces, essays, and so forth. Discussions will also focus on structural and lexical aspects of the Spanish language relevant to the writing assignments. Students will prepare first drafts and revised copies of a series of five compositions. The final paper will address a literary, cultural, or historical topic related to the course. Students are expected to use a word processor for their work.

Department: Modern Languages & Cultures -- Spanish
Course: SP 203
Title: Introduction To Early Hispanic Texts
Instructor: ter Horst, R. **Class Size:** 30
Description: The course features early-modern Hispanic texts in Spain and in Spanish America.

Department: Modern Languages & Cultures -- Spanish
Course: SP 211
Title: Conversational Spanish
Description: Designed to encourage conversational practice oriented around current issues. May be taken concurrently with SP 200 or another upper-level Spanish course.

Department: Modern Languages & Cultures -- Spanish
Course: SP 280
Title: Contemporary Spanish Prose
Cross-listed: SP 480
Instructor: Schaefer, C.
Description: Developments in the Spanish novel after the Civil War, from its resurgence with Cela to the "new realist" and experimental novels of the 1960s, and 1970s, to the post-Franco novels of the 1980s and 1990s. Emphasis on relationships between social and aesthetic considerations. Readings include works by Sender, Cela, Grosso, Matut, Goytisolo, Martin Santos, Martin Gaité, Tusquets, and Benet.

Department: Modern Languages & Cultures -- Spanish
Course: SP 283
Title: Twentieth-Century Spanish-American Theater
Cross-listed: SP 483
Instructor: Jorgensen, B.
Description: Examines major currents in drama through the analysis of representative works by Florencio Sanchez, Roberto Arlt, Rodolfo Usigli, Jose Triana, Griselda Gambaro, and others.

Department: Modern Languages & Cultures -- Spanish
Course: SP 294
Title: Spanish Film
Cross-listed: SP 294W/494/CLT 294/294W/494/FS 294/294W
Instructor: Schaefer, C.
Description: Devoted to the analysis of recent Spanish cinema. Beginning with the early post-Civil War period, the focus is on film as a narrative response changes in Spanish society. Considers the translation of other media (novels, short stories, etc.) to film and the representation of history through the medium of cinema. Includes films by directors such as Bunuel, Patino, Erice, Saura, Trueba, Garcia Sanchez, Almodovar.

Music

Department: Music
Course: MUR 100
Title: Experiencing Music
Instructor: Harman D
Exams: 2 exams
Coursework: 2 short papers (3 pages), 1 longer paper (10-12 pages), 3 concert reports. Custom-bound text required (approx. cost \$6)
Description: A new approach to "music appreciation" that could be offered only at the University of Rochester, with its extraordinary musical resources, including nearly 800 concerts and recitals per year, a professional-quality recording studio, and the largest academic music library in the New World. This revised course celebrates the "ears-on" experience of various aspects of musical performance and assumes no previous technical training in music. Participants will develop listening skills through the enjoyment of live musical presentations, in-class performances, discussions with the performers and living composers and guided listening sessions. Students will attend some rehearsals and concerts, including at least one Rochester Philharmonic concert at the Eastman Theatre, all free of charge. CD-ROM programs, Web site visits, and other technological media will also be explored.

Department: Music
Course: MUR 101
Title: Elements of Music
Prerequisites: Inability to read music
Exams: Mid-term, final, some quizzes
Description: A course for the student with no previous musical experience. 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
Prerequisites: Prior experience in reading music notation in both treble and bass clefs
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.

Department: Music
Course: MUR 110
Title: Introduction to Music Theory
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. Instead, students may register for MUR 111 (Theory I).

Department: Music
Course: MUR 111
Title: Theory I
Prerequisites: MUR 101 or MUR 110, placement test required
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 procedures in composition and analysis.

Department: Music
Course: MUR 113
Title: Musicianship II
Prerequisites: MUR 109, or placement by consultation
Description: Continuation of MUR 109 or musicianship section for students who have some knowledge of treble and bass clefs, scales, and intervals.

Department: Music
Course: MUR 114
Title: Musicianship III
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.

Department: Music
Course: MUR 115
Title: Musicianship IV
Prerequisites: MUR 114 or permission of theory coordinator
Description: Continuation of MUR 114. Concurrent enrollment in MUR 211 recommended.

Music

Department: Music
Course: MUR 121
Title: Worlds of Music
Instructor: Koskoff E **Class Size:** 30
Description: Explores some of the world's major music traditions, including theater music from China and Japan, Indian and Indonesian classical music, ritual music from Tibet, ceremonial music from West Africa and Eastern Europe. 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 (paper or musical instrument). No previous musical training is necessary.

Department: Music
Course: MUR 141A
Title: Sondheim & the Modern Musical Theater
Cross-listed: MUR 241F, MHS 281
Instructor: Kowalke K **Class Size:** 30
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. Analysis of lyrics, musical forms and idioms, process of adaptation and production.

Department: Music
Course: MUR 141F
Title: Musical Centers of the Italian Renaissance
Cross-listed: MUR 241F, IT 221
Instructor: Ossi M **Class Size:** 25
Description: A survey of the major musical centers in Italy between 1400 and 1600 (Naples, Rome, Florence, Mantua, Ferrara, Milan and Venice). Emphasis will be on the composers, repertoires, and musical establishments characteristic of each city, and on the patterns of patronage that engendered them. There will be a significant listening component.

Department: Music
Course: MUR 151-159
Title: Ensembles
Prerequisites: by audition only
Description: Musical Ensembles 151-159 may be repeated for a maximum of 8 credit hours for Music Concentrators and 4 credit hours for all other students. Students may receive credit for no more than one ensemble per semester. Each ensemble rehearses 2-4 hours per week and performs twice per semester. Auditions are held during the first two weeks of classes in the fall; by appointment in the spring. Contact the Music Program at 275-2828 for more information. MUR 151 Symphonic Wind Ensemble (Mondays 7:30-10:00pm); MUR 152 Jazz Ensemble (Thursdays 9:00-11:00pm); MUR 153 Symphony Orchestra (Tuesdays 7:30-10:00pm); MUR 154 University Chamber Orchestra (Mon 4:50-6:50pm and Wed 4:50-6:05pm); MUR 155 Chamber Ensembles (TBA); MUR 156 University Choir (MWF 12:00-12:50pm); MUR 158 Chamber Singers (Monday 4:50-6:05pm, and Tuesday & Thursday 12:30-1:45pm); MUR 159 Gospel Choir (Tuesdays 8:00-10:00pm)

Department: Music
Course: MUR 211
Title: Theory III
Instructor: Galand J **Class Size:** 25
Prerequisites: MUR 112
Exams: Mid-term, finals
Description: Continuation of MUR 112. Introduction to chromatic harmony. Analysis of larger forms. Students write model compositions in order to learn about complex compositional problems.

Department: Music
Course: MUR 221W
Title: Music History I
Instructor: Ossi, M. **Class Size:** 25
Prerequisites: MUR 112
Exams: Occasional quizzes, 2 tests & final
Coursework: Three short papers, bibliographic assignment
Description: A historical survey of music from the Middle Ages to the Renaissance, with an introduction to listening skills, methodology, music reference tools, and writing about music. Primarily lecture, with extensive listening and reading assignments.

Music

Department: Music
Course: MUR 223
Title: Music History III
Instructor: Kowalke K **Class Size:** 20
Prerequisites: MUR 212/MUR 222W
Exams: Mid-term, final
Coursework: Several essays
Description: The history of western art music from approximately 1750 through 1850, with an emphasis on analysis of the masterpieces of tonal music and their relationship to society and the other arts. Lecture, with extensive listening and analysis; reading assignments.

Department: Music
Course: MUR 241A
Title: Sondheim & the Modern Musical Theater
Cross-listed: MUR 141A, MHS 281
Instructor: Kowalke K **Class Size:** 30
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. Analysis of lyrics, musical forms and idioms, process of adaptation and production.

Department: Music
Course: MUR 241F
Title: Musical Centers of the Italian Renaissance
Cross-listed: MUR 141F, IT 221
Instructor: Ossi M **Class Size:** 25
Description: A survey of the major musical centers in Italy between 1400 and 1600 (Naples, Rome, Florence, Mantua, Ferrara, Milan and Venice). Emphasis will be on the composers, repertoires, and musical establishments characteristic of each city, and on the patterns of patronage that engendered them. There will be a significant listening component.

Naval Science

Department: Naval Science
Course: NAV 093
Title: Introduction to Naval Science
Instructor: Albers, K. CDR **Class Size:** 30
Exams: Weekly Quizzes, 3 Exams
Description: An introduction to the U.S. Navy, including organization, administration, customs, careers, ships, engineering.

Department: Naval Science
Course: NAV 099
Title: History of Amphibious Warfare
Instructor: Ottignon, D.A., Captain **Class Size:** 20
Exams: 2 exams, 1 project, various quizzes
Description: This course analyzes a series of historical case studies in an effort to discern certain patterns and principles which will provide the basis for a professional understanding of amphibious warfare. This is a history based course and not doctrine based (although the development of doctrine is addressed). The object is to educate the student in the characteristics, requirements and problems of amphibious warfare, not to train them in the staff planning process. The value of the study of history is not simply to learn what has happened in the past, but as practitioners of amphibious warfare to use the lessons of the past as the basis for making practical judgment about the present and future.

Department: Naval Science
Course: NAV 221
Title: Navigation I
Instructor: Nobrega, N., LT **Class Size:** 30
Exams: 2 Exams, 1 Project, 1 Practical Exercise, 3 Quizzes
Description: This course is an in-depth study of piloting and celestial navigation including theory, principles, and procedures. Students learn piloting including the use of charts, visual and electronic aids, and the theory and operation of magnetic and gyro compasses. Celestial navigation is covered in-depth and includes the celestial coordinate system, and introduction to spherical trigonometry, the theory and operation of the sextant, and the sight reduction process. Students develop practical skills in both piloting and celestial navigation. Other topics discussed include tides, currents, effects of wind and weather, plotting, use of navigation instruments, types and characteristics of electronic navigation systems, and navigation.

Naval Science

Department: Naval Science
Course: NAV 249
Title: Ship Systems II (Weapon Systems)
Instructor: Ryan, J. LT **Class Size:** 30
Exams: 3 Exams, 3 Quizzes
Coursework: Homework
Description: This course outlines the theory and employment of Naval weapon systems. The student explores the processes of target detection and evaluation, threat analysis, and weapon selection. To aid the student in understanding how a weapon is able to detect and track contacts, the physical aspects of radar and underwater sound propagation are explored. Case studies are utilized during the course to aid the student in understanding the concept of command, control and communication. The case studies and their discussion allow the student to apply the technical knowledge gained in lecture to real-world, leadership situations. Current world events and historical issues are discussed as applicable.

Department: Naval Science
Course: NAV 251
Title: Evolution of Warfare
Instructor: Ottignon, D., Capt. **Class Size:** 30
Exams: 2 exams, 1 paper, numerous quizzes
Description: The evolution of Warfare course provides the student with a very basic understanding of the art and concept of warfare from the beginning of recorded history to the present day. The intent of the curriculum is to familiarize the student with an understanding of the threads of continuity and the interrelations of political, strategic, operational, tactical and technical levels of war from the past, while bringing into focus the application of these save principles and concepts to the battlefields of today and the future.

Department: Naval Science
Course: NAV 264
Title: Psychology of Business and Industry
Instructor: Mulloy, W., Capt. **Class Size:** 30
Exams: 3 exams, 1 paper
Description: The course looks at organizational behavior from the aspect of people in the workplace. Topics include leadership, motivation, group dynamics, conflict resolution and organizational change. The goal will be for students to apply this knowledge to improve their effectiveness in working with others and in the workplace. Class will be in a lecture/discussion format. Readings will come from a text and articles provided in class.

Neuroscience

Department: Neuroscience
Course: NSC 201
Title: Basic Neurobiology
Cross-listed: BCS 240
Instructor: O'Neill, W.E., Nordeen, K., Kellogg, C. **Class Size:** 50
Prerequisites: BIO 110, BIO 111
Exams: 3 exams, no cumulative final
Coursework: Lectures, laboratory sessions, computer laboratory and 3 short papers
Description: Students are introduced to basic, fundamental concepts of neural function. The emphasis will not be on human neural tissue nor necessarily on mammalian nervous systems. Rather, information pertaining to vertebrate as well as invertebrate nervous systems will be presented in order to best demonstrate principles of neural function. Three examinations are given during the semester; each covers the material presented in the unit(s) since the previous examination. However, because of the nature of the material, concepts in any one unit carry over to other units, there will be a certain cumulative aspect to all exams. The exams carry equal weight and account for two-thirds of the final grade. Three short papers are also required, and their preparation will necessitate reading of some primary literature. Organization and clarity of writing will be considered as important as the content of the papers. These papers account for one-third of the final grade.

Neuroscience

Department: Neuroscience
Course: NSC 241
Title: Neurobiology of Behavior
Cross-listed: BCS/PSY 241 **Class Size:** 30
Prerequisites: NSC 201 or equivalent background.
Exams: Three mid-terms and a final exam. Each test will count towards 23% of your grade
Coursework: The tests and the final exam will consist of a combination of multiple choice and short essay questions. The material on the exams will be determined from what we cover in class AND from the reading assignments. The tests and exam a
Description: This course is a survey of biological substrates of behavior focusing on interrogative mechanisms of the brain and their expression in sensory, motor, motivational, and mnemonic functions. Emphasis is given to experimental research on infrahuman mammalian organisms that have provided models of neural organization and operation. The course will review basic neuroanatomy as well as physiology of the brain. A background in basic neural science is required.

Department: Neuroscience
Course: NSC 243
Title: Neurochemical Foundations of Behavior
Cross-listed: BCS 243
Instructor: Kellogg, C. **Class Size:** 15-20
Prerequisites: NSC 201 or equivalent background; biochemistry recommended.
Exams: 3 exams
Coursework: 1 paper
Description: The objective of this course is to introduce students to the field of neurochemistry. Topics covered range from study of neurochemical mechanisms that underlie normal neural function to discussion of behavioral disturbances that result from neurochemical abnormalities. Three-quarters of the course focus on cellular and molecular neurochemistry. In the last part of the course these topics are presented in the context of specific functional issues: For example, neurochemical mechanisms of adaptive behavior, learning and memory, behavioral disorders, gender differences, and drug seeking behavior. Three in-class exams are given that emphasize the use of factual knowledge in problem-solving and data analysis. The last section of the course is covered by a take-home, essay exam. Recommended preparation for the course: An in-depth understanding of neural structure and function as can be attained by taking Basic Neurobiology (BCS 240/NSC201) plus a basic understanding of the biochemistry of cellular function as attained in a cell biology course or an introductory biochemistry course.

Department: Neuroscience
Course: NSC 301
Title: Senior Seminar in Neuroscience
Instructor: Ison, J.R. **Class Size:** 6-12
Prerequisites: NSC concentrators, Senior status recommended. Otherwise, permission of instructor.
Coursework: Oral and written reports
Description: To be taken for one semester (2 credits). The emphasis is on the "Neuroscience as a scientific career." Students will 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, for example. As a group, students prepare for and attend at least three colloquia in Neuroscience. In addition, students prepare 3 brief reviews of current research problems for class presentation, discussion, and critique.

Philosophy

Department: Philosophy
Course: PHL 101
Title: Introduction to Philosophy
Instructor: Conee, E. **Class Size:** 150
Exams: 3 in-class tests, not cumulative, no midterm or final
Description: The course is an introduction to several fundamental philosophical issues, including the existence of God, the possibility of knowledge of external objects, and the nature of personal identity. Classes will be in the lecture /discussion format. The readings will be from a collection of readings, TBA. All assignments will be readings from the collection, or readings placed on reserve in Rush Rhees.

Department: Philosophy
Course: PHL 103
Title: Contemporary Moral Problems
Instructor: Holmes, Robert **Class Size:** 150
Exams: 2 exams, no final
Coursework: 2 papers
Description: This course will deal with contemporary moral problems, including racism, sexism, sexual harrasment, abortion, and capital punishment. Readings will be largely from contemporary sources and there will be considerable classroom discussion.

Department: Philosophy
Course: PHL 105
Title: Reason and Argument **Class Size:** 25
Coursework: Several quizzes and several short papers.
Description: Arguments are used both to try to persuade people of things 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 distinguishing good arguments from those that are not good. We will then develop a method for identifying, interpreting, and evaluating arguments of the sort you might find in speeches, newspaper editorials, letters to the editor, magazine articles, and scientific reports.

Department: Philosophy
Course: PHL 110
Title: Introductory Logic
Cross-listed: Cog 110
Instructor: Sider, Ted **Class Size:** 100
Exams: Three mid-terms and a final exam.
Coursework: Weekly exercise assignments.
Description: This is an introductory class in symbolic logic, in which we will study the validity of arguments using formal languages. We will learn the language of propositional logic, and the first order predicate calculus with identity. In each case, we will learn to translate between English and logic, to construct derivations of valid arguments, and to establish the invalidity of invalid arguments. Students interested in philosophy, mathematics, law, or simply in thinking clearly will benefit from this course.

Department: Philosophy
Course: PHL 111
Title: Philosophy of Religion
Cross-listed: REL 111
Instructor: Wierenga, Edward **Class Size:** 100
Description: See Religion and Classics, REL 111.

Department: Philosophy
Course: PHL116
Title: Philosophy, History, and Practice of Non-violence
Instructor: Holmes, R. **Class Size:** 20
Restrictions: Open to freshmen only
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."

Philosophy

Department: Philosophy
Course: PHL 201
Title: History of Ancient Philosophy
Cross-listed: PHL 201W
Instructor: Modrak, D. **Class Size:** 40
Exams: Two mid-term examinations and a final paper examination.
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. Texts: Ancient Greek Philosophy, edited by S. Marc Cohen, Patricia Cord and C.D.C. Reeve; Hellenistic Philosophy, edited by Brad Inwood and L.P. Gerson. This course may be taken for upper-level writing credit.

Department: Philosophy
Course: PHL 214
Title: Logical Methods in Philosophy
Cross-listed: PHL 414
Instructor: Braun, D. **Class Size:** 15
Prerequisites: PHL 110 or 210
Description: A good deal of contemporary philosophy presupposes familiarity with certain branches of logic. The goal of this course is to provide the background necessary to understand this sort of philosophy. We will study some of the following topics: (elementary) set theory, modal logic, counterpart theory, free logic, supervenience, supervaluations, many-valued logic. We will attend both to the formalisms and to their significance. Grades will be based on exams and homework.

Department: Philosophy
Course: PHL 223
Title: Social and Political Philosophy
Cross-listed: PHL 223W/PHL 423
Instructor: Curren, Randall **Class Size:** 25
Prerequisites: One previous course in philosophy
Exams: Mid-term and final.
Coursework: Two short papers.
Description: This course will discuss five fundamental topics: the arguments for government, the moral relations of individuals to government, concepts of individual freedom, the arguments for democracy, and justice in the production and distribution of goods. Students will read from the works of several of the most important philosophers who have addressed these questions. This course may be taken for upper-level writing credit.

Department: Philosophy
Course: PHL 226
Title: Philosophy of Law
Cross-listed: PHL 226W/PHL 426
Instructor: Bennett, John **Class Size:** 40
Prerequisites: One previous course in philosophy.
Exams: Mid-term and final exams
Coursework: two short papers; weekly written exercises.
Description: This course will discuss philosophical approaches to the nature of law, legal reasoning, and the relations between law and morality. Readings will be drawn from the Natural Law, Legal Positivist, and American "Legal Realist" traditions. Topics will include traditional natural law theories, legal positivism's notion of sovereign, the reduction of legal content to legal duty, law as prediction, the nature of social rules, and the problem of legal interpretation. This course may be taken for upper-level writing credit.

Philosophy

Department: Philosophy
Course: PHL 244
Title: Philosophy of Mind
Cross-listed: COG 244/COG 244W/PHL 444
Instructor: Braun, D. **Class Size:** 35
Prerequisites: One previous course in philosophy
Exams: two mid-term exams, one final exam
Coursework: One paper
Description: This course will critically examine four different theories of the nature of the mind and mental states: dualism, materialism, behaviorism, functionalism. Among the questions we will discuss are: are mental states (like thoughts, emotions, etc.) just states of the brain? Or do they have some non-physical aspects to them? To what degree is the mind like a computer? Can there be a computational or neurological explanation for conscious experiences? This course may be taken for upper-level writing credit.

Department: Philosophy
Course: PHL 247
Title: Philosophy of Language
Cross-listed: PHL 247W/PHL 447
Instructor: Sider, Ted **Class Size:** 30
Prerequisites: 1 previous course in philosophy; phl 110/210 is recommended
Exams: 2 mid-terms exams, one paper, a final exam
Description: This course is about meaning. There will be two main questions: (1)How do words get their meaning (that is, become meaningful)? (2)What _is_ a meaning anyway? A fairly large portion of the course will be dedicated to answering these questions for one, seemingly simple, kind of word, namely proper names. What is the meaning of the name "George Bush"? Could George Bush himself be the meaning of "George Bush"? We'll also consider some of the following questions: What does it mean to say that a sentence is "true by definition" or "true in virtue of meaning"? What is the difference between what a speaker means and what his words mean? Do a speaker's images and beliefs determine what her words mean? This course may be taken for upper-level writing credit.

Department: Philosophy
Course: PHL 260
Title: Contemporary Issues in Philosophical Theology
Cross-listed: PHL 460, REL 291
Instructor: Wierenga, Edward
Description: See Religion and Classics, REL 291.

Department: Philosophy
Course: PHL 266
Title: Rationalism
Cross-listed: PHL 466
Instructor: Meerbote, Ralf **Class Size:** 15
Prerequisites: PHL 202.
Exams: No exams.
Coursework: 3 papers
Description: Students study Descartes, Leibniz, and Spinoza, three leading rationalist philosophers. Readings consist of some of their major works, concentrating on issues in metaphysics, epistemology, logic, and the philosophy of mind. The course consists of lectures and discussions.

Department: Philosophy
Course: PHL 300
Title: Seminar for Majors
Instructor: Meerbote, Ralf **Class Size:** 20
Prerequisites: Open to philosophy majors and minors only.
Description: In 1997, this course will consist if an examination of Descartes' views on substance and its properties, together with an analysis of Spinoza's criticisms and development of Descartes' views.

Physics & Astronomy -- Astronomy

Department: Physics & Astronomy -- Astronomy
Course: AST 105
Title: Introduction to the Milky Way
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.

Department: Physics and Astronomy -- Astronomy
Course: AST 111
Title: Elementary Astronomy I
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.

Department: Physics and Astronomy -- Astronomy
Course: AST 203
Title: Astronomical Techniques
Cross-listed: AST 403
Prerequisites: MTH 201 or MTH 281 (or concurrent enrollment) (PHY 217 concurrent enrollment)
Restrictions: Not open to freshmen and sophomores
Coursework: Can be used for a writing course.
Description: This course is an introduction to the tools of modern observational astronomy. Geometrical and Physical optics, applied to telescopes and astronomical cameras are discussed. The physics of light detection, from radio to gamma-ray wavelength, and the instruments and techniques used for observation of faint celestial sources at those wavelengths are featured. The material should be useful to anyone using remote-sensing instruments, astronomical otherwise.

Physics and Astronomy

Department: Physics and Astronomy
Course: PHY 100
Title: The Nature of the Physical World
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. There are no prerequisites, no background knowledge is required and the material will be presented with very little mathematics. Substantial use will be made of demonstrations. 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.

Department: Physics and Astronomy
Course: PHY 113
Title: General Physics I
Prerequisites: MTH 141 or MTH 161 (may be taken concurrently)
Description: First semester of a 2-semester sequence suitable for students in the life sciences. Students in engineering and the physical sciences should take PHY 121. Newtonian particle mechanics, including Newton's laws and their applications to straight-line and circular motions, energy, momentum, angular momentum, and harmonic motions. Kepler's laws, planetary and satellite motions. Laboratory included and required. Calculus used and introduced as needed. Two 75-minute lectures plus one 50-minute recitation. This course is offered in both the fall and summer session I. **Class Size:** 200

Physics and Astronomy

Department: Physics and Astronomy
Course: PHY 121
Title: Mechanics
Prerequisites: MTH 141 or 161 or (may be taken concurrently with PHY 121) or equivalent; students with a prior introductory knowledge of calc
Exams: 3 Midterm Exams + 1 Final Exam
Coursework: Weekly omputerized homework sets and quizzes. 5 Laboratory Experiments
Description: First course for all students intending to major in physics, other physical sciences and engineering. Motion in one and two dimensions, Newton's Laws, work and energy, conservation of energy, system of particles, rotations, oscillations, gravity, thermodynamics. Laboratory included and required. This course is offered in fall, spring and summer.

Department: Physics and Astronomy
Course: PHY 122
Title: Electricity and Magnetism
Prerequisites: PHY 121, MTH 162 or MTH 143 (may be taken concurrently)
Description: Coulomb's Law through Maxwell's equations; electrostatics, electrical potential; capacitors; E. fields in matter; current and circuits; magnetostatics; magnetic fields in matter; induction, A.C. circuits; waves. The equivalent of three lectures and one recitation section per week. Laboratory included and required.

Department: Physics and Astronomy
Course: PHY 142
Title: Electricity and Magnetism (Honors) **Class Size:** 40
Prerequisites: Performance at or above the B- level in PHY 121 or by petition; MTH 162 or MTH 172 or equivalent (may be taken concurrently)
Restrictions: Permission of Instructor Permission of department required
Description: Topics the same as those of P122 but in greater depth. Recommended for prospective departmental concentrators and other science engineering students with strong physics and mathematics aptitudes. Laboratory included and required.

Department: Physics and Astronomy
Course: PHY 181
Title: Mechanics Laboratory
Instructor: Bodek, A. **Class Size:** 16 cap
Prerequisites: For students that have taken PHY 113 or PHY 121 without lab.
Description: Laboratories experiments in Mechanics, e.g., statistics and measurement, acceleration of gravity, conservation of energy and momentum, moment of inertia and oscillations, and mechanical equivalent of heat.

Department: Physics and Astronomy
Course: PHY 182
Title: Electricity & Magnetism Laboratory
Instructor: Bodek, A. **Class Size:** 16
Prerequisites: For students who have PHY 142 equiv course or P142 but have not taken taken lab.
Restrictions: Permission of Instructor
Description: Laboratory experiments in electricity and magnetism, e.g., Coulomb's Law, electric fields, measurement of the absolute volt and capacitance, e/m of the electron, superconductivity and electric circuits. Not open to students who have taken PHY 122 or who have taken P122 with lab.

Department: Physics and Astronomy
Course: PHY 217
Title: Electricity and Magnetism I **Class Size:** 20
Prerequisites: PHY 123 or 143 and MTH 164 (advanced calculus 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; electromagnetic induction; displacement current; Maxwell's equation; the wave equation.

Physics and Astronomy

Department: Physics and Astronomy
Course: PHY 235
Title: Classical Mechanics I
Prerequisites: MTH 281 or ME 201(may be taken concurrently)
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.

Department: Physics and Astronomy
Course: PHY 243
Title: Advanced Laboratory I
Prerequisites: PHY 217, PHY 238 (may be taken concurrently)
Description: Students work in pairs and each team is expected to do three or four 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. ***Approved for a writing course with permission of instructor.

Department: Physics and Astronomy
Course: PHY 244
Title: Advanced Laboratory II
Prerequisites: PHY 217, PHY 238 (may be taken concurrently)
Description: A continuation of Physics 243 with greater emphasis on independent research and construction of more complicated instrumentation. ***This course has been approved as a writing course with permission of instructor.

Department: Physics and Astronomy
Course: PHY 247
Title: Quantum Theory II
Prerequisites: PHY 238; MTH 282
Description: Fundamental concepts of quantum dynamics. Theory of angular momentum. Symmetry in quantum mechanics. Approximation methods. Identical particles. Scattering theory.

Department: Physics and Astronomy
Course: PHY 250
Title: Advanced Laboratory Projects
Prerequisites: PHY 243 or PHY 244
Restrictions: Permission of Instructor
Description: Similar in level to PHY 243 and PHY 244, but based on extended experimental projects by students as individuals or in small groups. The projects, chosen by mutual agreement between the students concerned and the professor, are intended to provide experience with the concepts and techniques of modern experimental research work. A particular project may be selected from almost any area of modern physics, but it should be strongly interesting to the student.

Department: Physics and Astronomy
Course: PHY 251
Title: Introduction to Solid State Physics
Cross-listed: EE 220/EE 420
Prerequisites: PHY 123, MTH 164, PHY 238(or instructors permission), PHY 227 (or instructors permission).
Exams: Midterm and final exam
Coursework: Problem sets about every two weeks
Description: An emphasis on the wide variety of phenomena that form the basis for modern solid state devices. Topics include crystals, lattice vibrations, quantum mechanics of electrons in solids, energy band structure, semiconductors, super-conductors, dielectrics, and magnets. The undergraduate and graduate versions of this course will have the same lectures, exams, and homework, but will be graded on a different scale. In addition, the graduate version will require a term paper on a particular solid state phenomenon or device, topic to be determined jointly by student and professor.

Department: Physics and Astronomy
Course: PHY 258
Title: Energy and Environment
Prerequisites: Three semesters of physics, two semesters of math.
Description: A broad survey of the energy-environment field, for science and engineering concentrators.

Physics and Astronomy

Department: Physics & Astronomy
Course: PHY 388
Title: Teaching Internship Program
Instructor: P. Auchincloss, L. Orr
Prerequisites: Must of taken a physics or astronomy sequence
Restrictions: Permission of Instructor Not open to freshmen
Description: Student must apply by application by contacting Connie Jones at 5-5306 A student typically spends one or two semesters teaching an introductory physics laboratory section, working with a graduate TA. Faculty supervision is augmented by training, ongoing teaching seminars, and a constructive evaluation process.

W. Allen Wallis Institute of Political Economy

Department: W. Allen Wallis Institute of Political Economy
Course: PEC 580
Title: Political Economy I
Description: This course will focus on a variety of theoretical models concerning political and economic behavior, as well as addressing more abstract foundational issues of choice theory and institutional design. Students will learn not only about the predicted effects of certain political institutions on economic outcomes, but also about the possibility of (and methods involved in) solving various collective action problems, agency problems, and the like.

Political Science

Department: Political Science
Course: PSC 101
Title: Political Systems
Instructor: Powell, G.B. **Class Size:** 80
Description: How typical is the world of American politics? To understand what is exceptional and what is general about politics requires a comparative perspective. This course offers that perspective by introducing students to a wide variety of political institutions, processes, and outcomes in new and old liberal democracies outside the United States. In so doing, it introduces students to political science, too. Recommended for those thinking about a major in political science and others who are simply interested in learning more about the politics of other countries and gaining a comparative perspective from which to understand better the politics of their own country.

Department: Political Science
Course: PSC 140
Title: Women, Politics and Social Change
Cross-listed: WST 203
Instructor: Johnson, N. **Class Size:** cap 12
Prerequisites: Successful completion of one of PSC 146, PSC 158, PSC 217, PSC 220, or PSC 247 in spring 1997 and a summer REACH internship.
Restrictions: Special application required
Description: This class synthesizes summer REACH internships with course work completed in one of five designated REACH courses in political science. During the fall semester, students meet with the professor and experts in their areas of intellectual interest. Class meetings consist mainly of student presentations that provide a descriptive and analytical overview of the internship experience, accompanied by class discussion based on the presentations and core readings that identify commonalities in the different interests and experiences.

Political Science

Department: Political Science
Course: PSC 142
Title: Interest Groups and Public Policy
Instructor: Hixon, W.
Prerequisites: Successful completion of one of PSC 217, PSC 220, PSC 229, PSC 243, PSC 259, or PSC 343 in spring 1997 and a summer REACH intern
Description: This class synthesizes summer REACH internships with course work completed in one of six designated REACH courses in political science. Readings in basic concepts such as collective action and principal-agent relations form a basis from which to explore particular internship experiences systematically and to link internships with general questions about how interest groups organize to lobby and monitor public officials and how public officials respond to competing pressures in policy formulation and implementation.

Department: Political Science
Course: PSC 154
Title: Big City Mayors and African Americans
Instructor: Fluker, S. **Class Size:** cap 25
Description: This freshman seminar explores the institutionalization of African-American mayoralities in the changing political order. First elected in the aftermath of the Civil Rights movement, African-American big city mayors have attained several electoral benchmarks such as long term incumbencies and succession. Consideration of the collective experiences of such mayors will include insurgent politics, cross-over voting, and kindred topics.

Department: Political Science
Course: PSC 180
Title: City Politics in Rochester
Instructor: Norwood, W., Fluker, S. **Class Size:** cap 25
Description: This two credit course will be offered from mid-October to the end of the fall semester. Especially appropriate for freshmen and sophomores. As federal and state money decreases, cities are increasingly "on their own" in coping with a variety of issues. How does city government work? What is the relationship between cities and state/federal governments? What creative solutions are cities proposing to deal with current problems? Using the City of Rochester as our laboratory, we will explore the dynamics of political life here. Historical background will be used as a source of discussion for understanding contemporary issues and politics in the city. Using a general framework for analyzing the construction of public policy at the local level, we will examine specific issue areas including downtown redevelopment, the city service delivery system, neighborhood revitalization, and crime.

Department: Political Science
Course: PSC 202
Title: Argument in Political Science
Instructor: Gamm, G.
Restrictions: Permission of instructor required for freshmen
Exams: Final Exam
Coursework: Class participation, six short papers (2-3 pages each) on the reading
Description: This is a required course for political science majors. We recommend that you take it during your sophomore year. The course introduces students to important questions and concepts in political science and to the forms of analysis, reasoning, and knowledge pursued by political scientists. This fall 1997 course focuses on "democracy and the American political tradition". You will read debates regarding tyranny of the majority, the tension between slavery and liberty, individual rights, civic engagement, parties and special interest groups, and representation. You will examine the centuries-long American struggle to protect democracy against itself. Material is drawn from some of the most important texts in American political history--the Declaration of Independence, "The Federalist", Tocqueville's "Democracy in America", and Lincoln's first inaugural address--as well as classic books and articles written by political scientists.

Political Science

Department: Political Science
Course: PSC 203
Title: Analyzing Information For Health Care Reform
Cross-listed: PPA 419 and PM 419
Instructor: Perkins, N. **Class Size:** cap 30
Description: This course will address the problems of inadequate information among producers and consumers of health care. The effects of the absence of full information will be examined by reviewing several initiatives that have tried to remedy these problems (e.g., information asymmetry, errors and heuristics). Emphasis will be placed on data sources, computerized patient records, decision support applications, and privacy.

Department: Political Science
Course: PSC 209
Title: Interest Groups in America
Instructor: Rothenberg, L. **Class Size:** 30-50
Prerequisites: PSC 202 is suggested
Exams: Midterm and final exams
Coursework: Each week includes required readings. An optional paper
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 218W
Title: Emergence of the Modern Congress
Cross-listed: PSC 518/HIS 342W/HIS 442
Instructor: Gamm, G. **Class Size:** Cap 9
Prerequisites: Permission of instructor required for freshmen and sophomores
Coursework: Class participation, several short papers (2-3 pages each) on reading, and at least one rewritten paper
Description: Through intensive reading and discussion, we will analyze major issues in congressional history and legislative institutions. We will examine the basic institutions of the House and Senate--committees, parties, leaders, and rules. We will also examine the development of careerism, the seniority system, and the relationship between legislative behavior and electoral concerns. The course is designed to introduce students to the principal approaches used by political scientists to study Congress, with special emphasis on the development of congressional institutions over time. This is an advanced seminar, appropriate for juniors and seniors with substantial coursework in political science, economics, and history. This course is acceptable for the upper-level writing requirement.

Department: Political Science
Course: PSC 222
Title: The Presidency
Instructor: Smith, S.
Exams: midterm and final exams
Coursework: One 10-12 page research paper
Description: An analysis of change and continuity in the institution of the American presidency. While some attempt will be made to place the institution in historical perspective, a majority of the course will focus on the institution and presidents from Franklin D. Roosevelt to the present. Issues to be discussed include domestic and foreign policy making, political parties and the presidency, presidential influence in Congress, presidential rhetoric, public opinion of the president, formal versus informal presidential powers, and presidential control of the bureaucracy.

Political Science

Department: Political Science
Course: PSC 224
Title: African - American Politics
Cross-listed: AAS 224
Instructor: Harrison, T. **Class Size:** 30
Exams: Midterm and final
Coursework: Quizzes, 15-20 page paper
Description: This course will survey the political strategies adopted by African Americans since Reconstruction to forge organized resistance to racial domination in the U.S. The course will cover the legalistic approaches of civil rights organizations, mass mobilization during the modern civil rights era, separatist ideologies and activities, the dominance of electoral over protest activity in the post-civil rights era, and the impact of black (elected and appointed) representation on the American polity.

Department: Political Science
Course: PSC 234
Title: Children and Public Policy
Cross-listed: PPA 434
Restrictions: Permission of instructor required for freshmen
Description: The course introduces students to the major government programs for children. It addresses the issues of income policy, child care and child development, health, and child welfare. In addition, the course examines the various actors that affect public policies for children. Through guest lectures, readings, and role plays, the course investigates the strategies and tools that various groups in society employ to effect change for children. For further information, contact Carolyn Whitfield in the Dept of Political Science (5-0620)

Department: Political Science
Course: PSC 237
Title: Domestic Social Policy
Cross-listed: PPA 434
Instructor: Jacobs, B. **Class Size:** 70
Exams: Two mid-course exams
Coursework: Policy analysis assignment
Description: An examination of major policy issues at the federal level. The normative justifications for governmental actions are discussed as well as the limitations imposed by bureaucracy and the decision-making process. Governmental processes that affect the poor are examined in detail, with special attention paid to an assessment of their impact and alternatives now under consideration. Readings are from a variety of sources.

Department: Political Science
Course: PSC 242
Title: Technology and Development in the Third World
Cross-listed: AAS 242/PPA 442
Instructor: Ebenhack, B. **Class Size:** cap 40
Description: Please see AAS 242 for the course description.

Department: Political Science
Course: PSC 247
Title: Women and the Law
Instructor: Johnson, N. **Class Size:** cap 20
Restrictions: Permission of instructor required for freshmen
Exams: Midterm and final
Coursework: Please schedule one office hour during the first five weeks of classes. THIS IS REQUIRED. The format of class sessions will consist of lectures and discussions. Each student is expected to have read all required assignments prior to class.
Description: Although the 14th Amendment guarantees the rights of citizens and the 19th Amendment assures women the right to vote, full legal equality for women is yet to be achieved in the U.S. Students in this course will examine the sex discriminatory aspects of statutory, judicial, and administrative rules of law. They will study the historical treatment of women by the courts and the legislative and executive branches of government to discover how and where discrimination exists. Among other questions posed of the class will be whether discriminatory treatment of women under the law necessarily means less favorable treatment. Specific legislation such as the Equal Pay Act of 1963 and Title VII of the Civil Rights Act will be studied.

Political Science

Department: Political Science
Course: PSC 252
Title: Politics in Canada
Instructor: Regenstreif, R.
Coursework: Three 5-8 page papers
Description: The course meets once a week for three hours and is conducted seminar-style. The content is an analysis of the Canadian political system. Comparisons with this country and Britain are important parts of the course. There will be a text used primarily as a reference. A reading and assignment schedule containing suggested reading and bibliography is distributed at the beginning of the semester.

Department: Political Science
Course: PSC 256
Title: Telecommunications Policy
Cross-listed: PPA 456
Instructor: Raymond, M.
Prerequisites: No technical prerequisites.
Restrictions: Permission of instructor required for freshmen
Description: As the national economy evolves, the importance of telecommunications as an essential element has grown. A larger number of public agencies have historically been involved in the oversight and management of telecommunications services in the U.S. Their role is changing rapidly in response to technological innovations and the development of competitive markets. This course will examine the past, current, and future of telecommunications policy in the U.S. and abroad. Regulation, standards, and competitiveness with other countries will be themes that underlie the course reading and lectures. For further information contact Carolyn Whitfield in the Dept. of Political Science (5-0620).

Department: Political Science
Course: PSC 263
Title: Black Intellectuals and the Crisis of the 20th Century
Cross-listed: AAS 205/AAS 205W/PSC 263w
Instructor: Fields, K. **Class Size:** 40
Description: Please see AAS 205 for the course description.

Department: Political Science
Course: PSC 265
Title: Comparative Perspectives on Race, Culture & Politics
Cross-listed: AAS 265
Instructor: Harris, F. **Class Size:** cap 20
Restrictions: Permission of instructor required for freshmen
Description: This course surveys the impact of race and culture on politics from a comparative perspective. It examines the formation of racial solidarity in the political sphere, state policies regarding racial inequality, and how race as a social construct operates as a political resource for racially dominated groups and for institutionalized political entities. The course will cover the United States, South Africa, the United Kingdom, Brazil, and other societies with a history of racial conflict. This is a junior and senior seminar course.

Department: Political Science
Course: PSC 270
Title: International Politics
Instructor: Mueller, J. **Class Size:** 140
Exams: Mid-term and final
Coursework: Optional paper
Description: A survey of international politics in the period since World War II focusing particularly on the Cold War and its aftermath. Various documentary film and video materials are incorporated into the course. Covers the origins of the Cold War, the wars in Korea and Vietnam, McCarthyism, China, rebellions in Eastern Europe, Castro's Cuba, arms control agreements, the Berlin crises, wars in the Middle East, Cuban Missile crisis, Afghanistan, Central America, changes in the Communist world, civil war in Yugoslavia, and policy problems in the post-Cold War world.

Political Science

Department: Political Science
Course: PSC 271
Title: Russia & Eastern Europe: Politics & International Relations
Instructor: Stone, R.
Exams: Midterm and final exams
Description: For the small countries of Eastern Europe, politics has long taken place in the shadow of larger actors, and continues to be decisively influenced by events beyond national borders. Meanwhile, the dramatic shifts in international affairs in this century have had their origins in domestic upheavals, often in Russia. The course will survey the politics and international relations of the region in the twentieth century, devoting roughly equal attention to historical and contemporary developments. Historical topics covered include the history of the Soviet state, the breakdown of democratic experiments in Eastern Europe, the Cold War, central planning and socialist cooperation, and the collapse of the Soviet empire. Contemporary subjects will include democratization, state building, macroeconomic stabilization, privatization, and European integration.

Department: Political Science
Course: PSC 275
Title: National Security Policy
Instructor: Mueller, J. **Class Size:** 150
Exams: midterm and final
Coursework: Optional paper
Description: An examination of the problems of war and peace in and after the nuclear era. Topics covered include deterrence (both of war and of crime), arms control, surprise attack, decisions that lead to war, arms races, bombing strategies, problems of concluding wars, technological changes to power balances, the effects of nuclear weapons, Hiroshima, Pearl Harbor, guerrilla warfare, the Vietnam and Gulf Wars, problems of peace-keeping, ethnic conflict, etc. There will also be an extensive discussion of changing attitudes toward war and of the historical movement of ideas on such topics as war, democracy, science, and capitalism. Assigned readings: various documentary, historical, and analytical materials.

Department: Political Science
Course: PSC 282
Title: Debates in Feminist Theory
Cross-listed: WST 282
Instructor: Lever, A. **Class Size:** cap 30
Restrictions: Permission of instructor required for freshmen
Description: This course introduces students to debates in contemporary feminist political theory. We will look at recent methodological disputes about the best way to study feminist issues, and will look at recent feminist work on problems such as sexual harassment, the domestic division of labor, and the right to privacy and freedom of expression. Thus, this course aims to introduce students to both methodological and substantive controversies through an explanation of some of the most pressing issues in feminist politics and theory.

Department: Political Science
Course: PSC 285
Title: Strategy and Politics
Instructor: Johnson, J. **Class Size:** cap 30
Prerequisites: PSC 202
Restrictions: Permission of instructor required for freshmen
Description: The fundamental assumption of this course is that in the widest sense the outcomes of political disputes are not determined by any sort of internal tendency toward equilibrium. (This is in sharp contrast to, for example, outcomes in markets where prices are determined by several internal forces.) Given the indeterminacy of political situations, the basic political problem is the choice of actions that give one actor or one set of actors advantage over others. This is the problem of the choice of strategy. (Of course, some highly constrained political situations are like markets in that the internal forces do lead to a predictable equilibrium and another problem in this course is to identify those political situations that have this feature.) While the analysis is somewhat abstract, the course contains many examples because it is focused on the practical problems of politics. Although some of the problems are formulated in symbols, this is not a course in mathematics, and NO special mathematical knowledge is needed for this course.

Political Science

Department: Political Science
Course: PSC 289
Title: The Scope of Political Science
Instructor: Powell, G.B. **Class Size:** cap 15
Prerequisites: Any 200-level political science course
Restrictions: Permission of Instructor
Exams: Two midterms
Coursework: Two written assignments, final research design paper
Description: A discussion course about the scientific method in social science based primarily on Kuhn, "The Structure of Scientific Revolutions", Hempel, "Philosophy of Science", Little, "Varieties of Social Explanation", and King, et.al., "Designing Social Inquiry". The concepts are applied in the analysis of several prominent works in contemporary political science. This course may be taken for upper-level writing credit.

Department: Political Science
Course: PSC 298
Title: Contemporary Eastern Europe
Cross-listed: ANT 252
Instructor: Hauser, E.
Description: Please see ANT 252 for course description.

Department: Political Science
Course: PSC 310
Title: Political Parties and Elections
Instructor: Stanley, H.
Restrictions: Permission of instructor required for freshmen
Coursework: Several short papers on the reading - most weeks
Description: Why did parties emerge? How have political parties changed? Is politics today more candidate-centered than party-centered? If so, so what? If parties are losing their grip on the loyalties of the voters, why are parties growing stronger and more meaningful as organizations and in Congress? Is democracy workable without political parties? This is a reading course addressing these and related questions. Freshmen wishing to take this course must discuss their interest with the instructor and secure his permission prior to registering. This course may be taken for upper level writing credit.

Department: Political Science
Course: PSC 377
Title: Perspectives on War & Peace: Central Europe
Instructor: Mueller, J.
Restrictions: Permission of Instructor
Coursework: Short papers and class participation leading to a longer paper
Description: A seminar focusing on the problems of ethnic conflict in Europe, especially in Yugoslavia. Historical, political, economic, and social forces will be considered in order to assess why violence erupts in some places, but not in others. Issues like genocide, violent behavior, problems of peace-keeping, and biases in press coverage will also be considered. Students interested in taking the course should indicate their interest to the instructor sometime before the end of the spring 1997 semester preferably by e-mail: bbbb@troi.cc.rochester.edu. Those accepted should bring an add slip to the first day of class in September. The course can be taken for four or eight credit hours.

Department: Political Science
Course: PSC 383
Title: Culture and Politics
Instructor: Johnson, J.
Restrictions: Permission of instructor required for undergraduates
Coursework: Grades will depend upon participation, several short papers (305 pages), and a final seminar paper (approx. 25 pages) in which students apply theoretical tools developed in the course to a substantive empirical or historical problem of thei
Description: Social scientists often claim that there is an intimate relationship between culture and politics. They, unfortunately, have made scant progress in elaborating the theoretical resources needed to analyze that relationship. This has led several observers to conclude that the "systemic study of politics and culture is moribund". Our aim in this seminar is to remedy this sorry state. More specifically, we will try to identify the theoretical resources that might allow more cogent analyses of the relation between culture and politics. In the process we will range across disciplines, with readings drawn from anthropology, economics, history, philosophy, political science and sociology. The course is run as a seminar, which means that all students must participate actively.

Political Science

Department: Political Science
Course: PSC 385
Title: Theories of Rights
Instructor: Lever, A.
Prerequisites: Any course in political theory
Restrictions: Permission of Instructor
Coursework: Students will be expected to give class presentations and to write at least two papers.
Description: Are rights inherently individualistic and egoistic, as Marx believed, and as contemporary critics of "rights talk" maintain? Is it possible to talk of rights to welfare, or universal human rights, without extending the concept of a right so far that it becomes meaningless? Are rights absolute, and if not, what is their point? Are rights side-constraints, trumps or threshold, and what do these metaphors imply about the nature and content of rights? These are some of the questions that this seminar will address, by examining competing philosophical conceptions of what rights are, how they can be justified, how they function, and what consequences they have. The course is intended to be a graduate-level seminar, although qualified undergraduates will be welcome with permission of the instructor (8-credit hours). It aims to introduce students from various disciplines to the philosophical literature on rights and to provide them with the opportunity to explore any research interests that they have in the area.

Department: Political Science
Course: PSC 394
Title: Internships: Public Defender and District Attorney
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 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 334). 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
Description: Internships are available for students in London, Brussels, Paris, Bonn, and Madrid. Students need a modest amount of French in Brussels and need substantial fluency in the language for the latter three placements. For applications and information, students should call the Study Abroad Office.

Psychology

Department: Psychology
Course: PSY 101
Title: Introduction to Psychology
Instructor: McAdam, D. **Class Size:** 280
Restrictions: Open to freshmen only
Exams: Four objective hourly exams.
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.

Religion & Classics

Department: Religion & Classics
Course: REL 101
Title: Introduction to the Old Testament
Cross-listed: REL 101W
Instructor: Merideth, A.
Exams: Midterm quiz, a final exam and a paper
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 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. Upper-level writing credit available (REL 104W) but registration limited with permission of instructor only.

Department: Religion & Classics
Course: REL 105
Title: The Asian Search for Self
Instructor: Brooks, D.
Restrictions: Not open to seniors
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 107
Title: History of Islam
Cross-listed: AAS 107
Instructor: Homerin, Th. E.
Exams: 3 exams; 3 quizzes
Description: This course will trace the development of the religion of Islam from its origins in the Qur'an and Muhammad's teachings, through the codification of the classical tradition in its various forms, and finally to the living Islam of the contemporary world.

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.

Religion & Classics

Department: Religion & Classics
Course: REL 142
Title: The Ideas of the Greeks
Cross-listed: CLA 142
Instructor: Geier, A. **Class Size:** 40+
Prerequisites: none
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 190Q
Title: Dante's Divine Comedy
Cross-listed: IT 190Q/ CLT 190Q
Instructor: Stocchi-Perucchio, D.
Description: See IT 190Q/CLT 190Q for course description.

Department: Religion & Classics
Course: REL 205
Title: I, Claudius: Introduction to Imperial Rome
Cross-listed: CLA 205/CLA 193Q
Instructor: Argetsinger, K.
Exams: 2 midterms
Coursework: 1 class presentation, 1 final project
Description: This course will use the BBC series "I, Claudius" as a starting point for asking questions central to the social history of imperial Rome. How did Augustus establish a new form of government at Rome? Why did he succeed where Julius Caesar had failed? We will examine patronage systems, family structure, marriage patterns, the central role of violence in imperial and daily life, and the vital religious developments of the period, including the establishment of emperor cults and the birth of Christianity. In addition to the "I, Claudius" materials, students will read the primary sources on which the series is based, a modern history of the period, and selected modern scholarship. Finally, we will ask about the differences between history and historical fiction. How do we go about imagining the past and what are the various ways and reasons for doing so?

Department: Religion & Classics
Course: REL 216
Title: The Prophets and their World
Instructor: Brennan, J. **Class Size:** 25-30
Exams: mid-term, final
Description: A critical, historical and comparative study of Israelite prophecy from the time of Elijah and Elisha until its decline in the years after the Exile. Special attention will be given to the role played by such figures as Amos, Hosea, Isaiah, Jeremiah, and Ezekiel. The books which bear their names will be studied in some depth in an effort to understand the ways in which they interacted with their contemporaries, how they helped to shape Israel's self-understanding, and the reasons for their continuing influence in our time.

Department: Religion & Classics
Course: REL 221
Title: Modern Jewish Thought
Cross-listed: JST 264
Instructor: Braun, W.
Description: Responses of outstanding Jewish thinkers to major problems of the last hundred years such as the spread of assimilation, the revival of spirituality, the religious and intellectual foundation of Zionism will be probed. Authors such as Buber, Rosenzweig, Heshel, Achad Haam and Herzl will be read. Attention will be given to the present attempts of integration of Jewish women within the religious and communal framework. No extensive overview of the period is attempted, rather emphasis will be given to individual authors, a close reading of original texts (all provided in translation) and discussion arising from it. There will be a number of short papers and a longer one.

Religion & Classics

Department: Religion & Classics
Course: REL 228
Title: Sex, Death and Disease: The Body
Cross-listed: CLA 228
Instructor: Merideth, A.
Description: Though we often assume that religion deals primarily with issues that concern one's soul or spirit, the earliest Christians were deeply concerned with their bodies. In this course, we will discuss the various ways in which the earliest Christians talked about their bodies and examine the means by which they sought to "discipline" it particularly in connection to early Christian concerns about sexuality, physical suffering, and death. How do the early Christian debates over the nature of the body reflect concerns about personal identity and the understanding of the nature of the self? In what ways does the discourse over women's bodies inform the debate over women's power and authority in the early church? How is the dispute over the nature of Jesus' body interconnected with the early Christian experience of persecution and martyrdom? Does the rise of early Christian asceticism reflect a Christian hatred of the flesh? In addition to reading ancient Christian sources, we will also reflect upon some of the recent theoretical work that has been done on the social, cultural, and religious construction of the body by Michel Foucault, Bryan Turner, Mary Douglas, and others.

Department: Religion & Classics
Course: REL 234
Title: Cry Freedom: Liberation Theologies of Africa and the Americas
Cross-listed: AAS 246
Instructor: Cadorette, C
Exams: There will be a mid-term and final examination
Coursework: Readings will average about eighty pages per week. Students may choose between short, single page reflection papers, three five to seven page essays or a twenty-five page research paper.
Description: Since the 1960's certain Christian theologians have attempted to re-think and re-express their religious beliefs in ways that can lead to the radical transformation of people's lives and social institutions. The movement this group of diverse Christian thinkers has set in motion is often referred to as liberation theology. In this course we will look at the principal ideas of various liberation theologians - Latin American, Asian, African, Afro-American, and feminist. As well as looking at the ideas of these thinkers, we will also examine the social worlds in which they think and write, thus trying to see the connection between their ideas and the social environments they want to liberate.

Department: Religion & Classics
Course: REL 243W
Title: Islamic Mysticism
Instructor: Homerin, Th. E.
Exams: 3 papers
Description: An advanced introduction to mystical life in Islam which will study Islamic mystical experience and theory, and trace the importance of Islamic mysticism to religion, philosophy, art and literature as found in medieval and modern Muslim societies.

Department: Religion & Classics
Course: REL 246
Title: Journey to the East
Cross-listed: ARA 246
Instructor: Beaumont, D.
Description: Selections from classic travel narratives by writers such as E.W. Lane, Mark Twain, Richard Burton, Freya Stark, and Flaubert that describe their experiences in the Arab world. We will also read selections from travel narratives by Arabs visiting Europe. These writings will be discussed in the context of post-Said critiques of Orientalism.

Religion & Classics

Department: Religion & Classics
Course: REL 259
Title: Hindu Mystical Poetry
Instructor: Brooks, D.
Prerequisites: REL 105 or another course in Hinduism are very strongly recommended. Not recommended for Freshman.
Exams: Two papers and a final examination
Description: This course concentrates on close readings of translations of mystical poetry written in the Hindu tradition both in Sanskrit and in vernacular languages such as Hindi, Tamil, and Marathi. We will work both diachronically to consider the development of ideas from the Vedas to contemporary mystics and synchronically to consider perennial themes and issues such as the gods, karma, illusion, salvation, and yoga. Different traditions will also be considered such as the Nirguni poets, the Saivite yogis, and the Krsna bhaktas. Readings will be complemented by recent scholarship in the field. Additional primary sources include works of Kabir, Antal, Mirabai, Ravidas, Jnanesvar, Utpaladeva, and more recent efforts by Swamis Muktananda and Chidvilasananda.

Department: Religion & Classics
Course: REL 261
Title: Hindu Tantric Yoga
Instructor: Muller-Ortega, P.
Prerequisites: One course in Hinduism or permission of instructor
Coursework: One take-home midterm; several short, in-class papers; one research paper (with an early draft of research paper submitted for comments).
Description: As a heterodox and experimental religious movement which takes shape during the medieval period, the Tantra encompasses and penetrates the Hindu, Buddhist, and Jain religious traditions. This class will serve as an advanced introduction to the Yoga or esoteric mysticism of the Hindu Tantra, and will center on a close reading of two of its important texts. These texts are drawn from a medieval Tantric tradition devoted to the worship of the God Shiva and known as Kashmiri Shaivism. The study of these two texts will be supplemented by readings from several works of modern scholarship which provide insight into the historical, theoretical, and philosophical aspects of the Hindu Tantric Yoga. The class is projected as a seminar with weekly meetings devoted to lectures, discussions of assigned readings, and student presentations. Our study of the Hindu Tantric Yoga will first attempt to situate the Tantra in the various contexts--historical, social, doctrinal--in which this experimental tradition develops and takes root. We will also be concerned with some of the definitional and methodological problems involved in the study of this tradition. Then, we will seek to describe and examine the range of elements that compose the Hindu tantric worldview. These considerations will then allow us to approach the two important texts of the Hindu Tantra. Here we will see that the Yoga or mysticism of the Hindu Tantra emerges from these textual environments as having a particular set of features: corporeal, extroversive, transgressive, and ultimately paradoxical in its nature.

Religion & Classics

Department: Religion & Classics
Course: REL 264
Title: Buddhism in South Asia
Instructor: Muller-Ortega, P
Exams: Two take-home midterms; several short, in class papers; and a final
Description: An exploration of the basic concepts and themes of Buddhism in South Asia: its early origins; the life of the Buddha; the formulation of the Buddhist community or Sangha; the early scriptures of the Pali canon; the three "turnings" of the Wheel of the Law; Buddhist monastic developments vs. lay Buddhism; Buddhist meditation practices; its interactions with Hinduism and Jainism; and the expansion of Buddhism throughout South Asia. In our examination of this important Asian tradition, particular attention will be given to an analysis of the first two of the so-called three Turnings of the Wheel of the Law: Theravada and Mahayana. This analysis will provide an in-depth grounding in the essentials of the Buddhist tradition, and will prepare students for further study of Buddhism as it later develops in East Asia. Careful attention will be given to tracing the history and mutual interactions of the many Buddhist sects. In addition, a primary focus will be placed on the monastic traditions of Buddhism, and their use of meditation as a tool for gaining insight and enlightenment. Buddhism presents a powerful critique of our ordinary conceptions about reality, language, and the way we know things. This critique will be examined especially as it is presented in the works of the illustrious Buddhist philosopher Nagarjuna. Readings from a wide variety of sources in South Asia Buddhism will provide a focus for this introduction to an important tradition of South Asian spirituality and religious practice.

Department: Religion & Classics
Course: REL 279
Title: Romanesque Art and Architecture
Cross-listed: AH 238W
Instructor: Walsh, D.
Description: For course description see AH 238W .

Department: Religion & Classics
Course: REL 282
Title: The Arts of Buddhist Asia
Cross-listed: AH 226
Instructor: Dohanian, D.
Description: For description see AH 226

Department: Religion & Classics
Course: REL 291
Title: Contemporary Issues in Philosophical Theology
Cross-listed: same as PHI 260/460
Instructor: Wierenga, E. **Class Size:** 20
Description: An examination of the problem of evil, that is, of the question whether the existence of evil in the world is logically incompatible with (or is at least evidence against) the existence of a God who is omnipotent, omniscient, and perfectly good.

Department: Religion & Classics
Course: REL 293W
Title: Theories of Religion
Instructor: Green, Wm.
Restrictions: Permission of Instructor
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.

Religion & Classics -- Arabic

Department: Religion & Classics -- Arabic
Course: ARA 101
Title: Elementary Arabic I
Instructor: Beaumont, C.
Exams: Quizzes roughly every other week; midterm and final.
Description: Introduces the student to the script, pronunciation and simple syntax. Class time is devoted to grammar, simple conversation, reading and drills. Class meets 5 days a week, three with the professor, two days with the teaching assistant.

Religion & Classics -- Arabic

Department: Religion & Classics -- Arabic
Course: ARA 103
Title: Intermediate Arabic
Instructor: Beaumont, D.
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. Class meets five days a week, three days with the professor, two with his assistant.

Department: Religion & Classics -- Arabic
Course: ARA 246
Title: Journey to the East
Cross-listed: REL 246
Instructor: Beaumont, D.
Description: Selections from Classic travel narratives by writers such as E. W. Lane, Mark Twain, Richard Burton, Freya Stark, and Flaubert that describe their experiences in the Arab world. We will also read selections from travel narratives by Arabs visiting Europe. These writings will be discussed in the context of post-Said critiques of Orientalism.

Religion & Classics -- Classical Studies

Department: Religion & Classics -- Classical Studies
Course: CLA 142
Title: The Ideas of the Greeks
Instructor: Geier, A. **Class Size:** 40+
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 193Q
Title: I, Claudius: Introduction to Imperial Rome
Cross-listed: CLA 205/REL 205
Instructor: Argetsinger, K.
Restrictions: Permission of college Dean required
Description: This course will use the BBC series "I, Claudius" as a starting point for asking questions central to the social history of imperial Rome. How did Augustus establish a new form of government at Rome? Why did he succeed where Julius Caesar had failed? We will examine patronage systems, family structure, marriage patterns, the central role of violence in imperial and daily life, and the vital religious developments of the period, including the establishment of emperor cult and the birth of Christianity. In addition to the "I, Claudius" materials, students will read the primary sources on which the series is based, a modern history of the period, and selected modern scholarship. Finally, we will ask about the differences between history and historical fiction. How do we go about imagining the past and what are the various ways and reasons for doing so?

Department: Religion & Classics -- Classical Studies
Course: CLA 205
Title: I, Claudius: Introduction to Imperial Rome
Cross-listed: REL 205/CLA 193Q
Instructor: Argetsinger, K.
Exams: 2 midterms
Coursework: 1 class presentation, 1 final project
Description: This course will use the BBC series "I, Claudius" as a starting point for asking questions central to the social history of imperial Rome. How did Augustus establish a new form of government at Rome? Why did he succeed where Julius Caesar had failed? We will examine patronage systems, family structure, marriage patterns, the central role of violence in imperial and daily life, and the vital religious developments of the period, including the establishment of emperor cults and the birth of Christianity. In addition to the "I, Claudius" materials, students will read the primary sources on which the series is based, a modern history of the period, and selected modern scholarship. Finally, we will ask about the differences between history and historical fiction. How do we go about imagining the past and what are the various ways and reasons for doing so?

Religion & Classics -- Classical Studies

Department: Religion & Classics -- Classical Studies
Course: CLA 228
Title: Sex, Death and Disease: The Body
Cross-listed: REL 228
Instructor: Merideth, A.
Description: Though we often assume that religion deals primarily with issues that concern one's soul or spirit, the earliest Christians were deeply concerned with their bodies. In this course, we will discuss the various ways in which the earliest Christians talked about their bodies and examine the means by which they sought to "discipline" it particularly in connection to early Christian concerns about sexuality, physical suffering, and death. How do the early Christian debates over the nature of the body reflect concerns about personal identity and the understanding of the nature of the self? In what ways does the discourse over women's bodies inform the debate over women's power and authority in the early church? How is the dispute over the nature of Jesus' body interconnected with the early Christian experience of persecution and martyrdom? Does the rise of early Christian asceticism reflect a Christian hatred of the flesh? In addition to reading ancient Christian sources, we will also reflect upon some of the recent theoretical work that has been done on the social, cultural, and religious construction of the body by Michel Foucault, Bryan Turner, Mary Douglas, and others.

Religion & Classics -- Classical Greek

Department: Religion & Classics -- Classical Greek
Course: CGR 103
Title: Intermediate Greek
Instructor: Geier, A.
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 110
Title: Beginning New Testament
Description: A first course in Greek, covering vocabulary, grammar, and reading strategies. The course is designed to prepare students to read the New Testament as well as other Koine Greek documents pertinent to the history of the Hellenistic world and of early Christianity.

Department: Religion & Classics -- Classical Greek
Course: CGR 202
Title: Homer's Odyssey
Instructor: Geier, A.
Prerequisites: CGR 101-103
Exams: no exams - special research on projects
Description: A study, translation and discussion of selections from Homer's Odyssey. Special attention given to meter and the poetic aspects of Homeric Greek.

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 unit exams throughout the course. No final. Textbook: Edna Amir Coffin, Lessons in Modern Hebrew I.

Department: Religion & Classics -- Hebrew
Course: HEB 103
Title: Intermediate Hebrew
Cross-listed: JST 103
Prerequisites: HEB 102 or equivalent familiarity with verb conjugation patterns
Coursework: Several writing assignments.
Description: Continuation of Hebrew 102 with emphasis on enhancing reading comprehension, writing and speaking skills. Students are expected to have good understanding of the structure of Hebrew including familiarity with verb forms. Several writing assignments, and final exam on verbs and reading comprehension. Textbook: Edna Amir Coffin, Lessons in Modern Hebrew II.

Religion & Classics -- Latin

Department: Religion & Classics -- Latin
Course: LAT 101
Title: Elementary Latin I
Instructor: Argetsinger, K.
Exams: Weekly quizzes, 2 midterms, final exam
Description: The elementary Latin sequence (Lat 101, Lat 102, Lat 103) emphasizes reading skills, and is based directly on the ancient authors (including Vergil, Cicero, and St. Augustine). Readings are accompanied by ample drill of forms, syntax, and vocabulary. For Latin 101, no Latin background is required or assumed.

Department: Religion & Classics -- Latin
Course: LAT 104
Title: Catullus
Instructor: Argetsinger, K.
Prerequisites: Latin 102 or permission of instructor
Restrictions: Permission of Instructor
Exams: exams, two short papers
Description: This course will provide an intensive study of the poetry of Catullus, a master of both delicate lyric and biting invective. In studying this experimental poet, we will consider formal aspects such as metre, vocabulary, and genre, as well as the themes of poetics, politics, and sexuality which come together in his work. For students at the 100-level, translation work will be accompanied by systematic grammar review.

Department: Religion & Classics -- Latin
Course: LAT 204
Title: Catullus
Instructor: Argetsinger, K.
Prerequisites: Latin 102 or permission of instructor.
Restrictions: Permission of Instructor
Exams: exams, two short papers
Description: This course will provide an intensive study of the poetry of Catullus, a master of both delicate lyric and biting invective. In studying this experimental poet, we will consider formal aspects such as metre, vocabulary, and genre, as well as the themes of poetics, politics, and sexuality which come together in his work. For students at the 100-level, translation work will be accompanied by systematic grammar review.

Religion & Classics -- Yiddish

Department: Religion & Classics -- Yiddish
Course: YDH 102
Title: Intermediate Yiddish
Cross-listed: JST 102
Instructor: Braun, W.
Prerequisites: YDH 101
Description: Continues Yiddish 101 with added emphasis on reading, vocabulary building. Selected examples from Yiddish lyrics and essays.

Sociology

Department: Sociology
Course: SOC 101
Title: Introduction to Sociology
Instructor: Harper, D. **Class Size:** 90-100
Exams: Two midterms, Final Examination
Description: Content: For the student, the objectives of the course are: (1) to acquire a sociological perspective, (2) to learn and understand the major sociological ideas and research findings, and (3) to develop a critical and questioning stance towards public pronouncements about social phenomena. 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 change. The lectures, readings and class discussion focus on these matters, which refer to different aspects of the social interactions.
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 Mills, *The Sociological Imagination*, (a critical essay on sociology); Bosk, *Forgive and Remember*, (a study of surgical residents in a teaching hospital); Stacey, *Brave New Families* (a study of changes in family life in the United States); Wright, *Address Unknown*, (a study of homelessness in the United States) Goffman, *Behavior in Public Places*, (an essay on how people conduct themselves in public.)

Sociology

Department: Sociology
Course: SOC 189Q
Title: Medical Controversies
Instructor: Harper, D. **Class Size:** 18
Restrictions: Permission of Instructor Open to freshmen only
Exams: No exams, several term papers
Description: Nearly all aspects of medicine and health care are controversial: scientific and technical controversies, such as the nature and causes of diseases, treatment of disease; organizational controversies, such as the organization of health care systems, the recruitment and training of medical personnel; and ethical issues, such as physician assisted suicide, organ transplants, surrogate motherhood, genetic testing, and the role of government and insurance in health care. Readings on these will be assigned and discussed. METHODS OF INSTRUCTION: Class discussion, no lectures. READINGS: Six or seven research monographs and book length essays.
Examples: Abraham, Moma Might be Better Off Dead; May, The Patient's Ordeal; Marmor, Understanding Health Care Reform. NOTE: THIS COURSE IS LIMITED TO 18 STUDENTS AND IS INTENDED FOR FRESHMEN. HOWEVER, IF FEWER THAN 18 FRESHMEN ENROLL, THEN THE COURSE WILL BE OPEN TO SOPHOMORES. THOSE WHO ARE INTERESTED SHOULD, DURING THE FIRST WEEK OF THE FALL SEMESTER, INQUIRE OF THE INSTRUCTOR ABOUT THE POSSIBILITY OF ENTERING THE COURSE.

Department: Sociology
Course: SOC 205
Title: Macrosociology
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.

Department: Sociology
Course: SOC 233
Title: Deviant Behavior
Instructor: Smith, T.
Exams: Midterm, Final Exam
Description: Deviant Behavior reviews the study of behavior eliciting moral censure and social control. The course surveys sociological theory in the study of deviance, and introduces the student to research on subjects such as crime, delinquency, violence, sexual behavior, mass phenomena, substance abuse, and social control. Weekly lectures and discussions.

Department: Sociology
Course: SOC 251
Title: Social Problems
Instructor: Harper, D.
Exams: Unannounced quizzes, one midterm, final
Description: In a democratic society a number of social problems emerge. These are events or situations that a sizable number of people define as undesirable and needing change. The course will focus, then, on (1) the question: at any period of time what leads citizens to define some phenomena (e.g., environmental degradation) as social problems, but not other phenomena (e.g., divorce)? and (2) the characteristics and causes of the various national and global social problems. These problems include nationally: crime, unemployment, drug abuse, poverty and homelessness, environmental degradation, the organization of health care systems; and globally: overpopulation and war. METHOD OF INSTRUCTION: Lectures and some class discussion. READINGS: Six or seven research monographs and book length essays. Examples: Hartman, Double Exposure: Poverty and Race in America; Hudson, Merchants of Misery; Meier and Geiss, Victimless Crime?

Statistics

Department: Statistics
Course: STT 165
Title: Elements of Probability and Statistics
Instructor: Rao, P. **Class Size:** 100
Prerequisites: MTH 141, 150, or 161
Exams: 2 mid-terms & 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.

Department: Statistics
Course: STT 201
Title: Introduction to Probability
Cross-listed: MTH 201
Instructor: Bezuidenhout **Class Size:** 30
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 **Class Size:** 150
Exams: 2 midterms and a final
Coursework: Lectures plus weekly recitation section meeting. Weekly homework.
Description: This course provides an introduction to the basic concepts and techniques in statistics with emphasis on applications to the social sciences. (However, for economists STT 165 is recommended.) It assumes very little mathematical background. Topics include organizing and understanding data using descriptive statistics (graphical and numerical summaries of data), basic probability, the design and implementation of surveys and experiments, estimation and confidence intervals, hypothesis testing, regression and correlation, analysis of variance, and contingency tables. Computing with MINITAB.

Department: Statistics
Course: STT 212
Title: Applied Statistics for the Biological & Physical Sciences I
Instructor: Mudholkar, G. **Class Size:** 75-100
Exams: Two mid-terms and a final
Coursework: Lectures plus a weekly recitation section. Weekly homework.
Description: This course is an introduction to the basic techniques of statistical analysis with application to the physical and biological sciences. It is particularly suitable for Biology, Chemistry, Engineering, Geology, Nursing and pre-med students. It discusses data collection, descriptive statistics, probability, basic ideas and methods of estimation and hypothesis testing, including t, F and chi-square tests, correlation, regression, analysis of variance, contingency tables. Students are introduced to MINITAB, an interactive computer program for data analysis. This is a first course (for more advanced methods of statistics, see STT 216).

Department: Statistics
Course: STT 226
Title: Introduction to Linear Models
Instructor: Smethurst, P. **Class Size:** 20
Prerequisites: STT 203 & STT 211 or STT 212
Exams: Two mid-terms & a final
Description: Review of statistical estimation and hypothesis testing, linear regression and correlation, least squares, estimation and prediction, multiple regression, weighted least squares, regression diagnostics, polynomial regression, introduction to analysis of variance. Text: Applied Linear Statistical Models, 3rd edition by Peter John, Wasserman William, and Kutner Michael. Minitab Handbook.

Department: Statistics
Course: STT 277
Title: Computing: Introduction to Statistical Software
Cross-listed: STT 477
Instructor: Raubertas, R. **Class Size:** 20
Prerequisites: STT 216 or STT 226, or instructor's permission
Exams: Final
Description: Introduction to the MINITAB, SAS, and S programming environments. Some general theoretical and practical topics in computing are also presented. (Course offered first half of semester for 2 credits.)

Statistics

Department: Statistics
Course: STT 278
Title: Methods of Data Analysis
Cross-listed: STT 478
Instructor: Raubertas, R. **Class Size:** 20
Prerequisites: STT 277 & its prerequisites or instructor's permission.
Exams: Final
Description: Philosophy and the techniques of exploratory data analysis. Each student analyses a single real-life data set in some depth and discusses his/her work with the class. (Course offered second half of the semester for 2 credits.)

Women's Studies

Department: Women's Studies
Course: WST 100
Title: Introduction To Women's Studies **Class Size:** 30
Description: The description of this course changes every semester. Each instructor brings her unique perspective as an Introduction to Women's Studies. A full description will be available before the end of the Spring Semester.

Department: Women's Studies
Course: WST 115
Title: Introduction to Medical Anthropology
Cross-listed: ANT 102
Instructor: Ayala Emmett
Restrictions: Open only to freshmen and sophomores
Coursework: Lectures, discussions, readings, films
Description: This course will examine a broad range of topics in the study of medical and health care systems from an anthropological and cross cultural perspective. An introductory section will integrate the many approaches to illness and disease that constitute medical anthropology, and the body of the course will consider several major areas of anthropological work on these subjects: ethnomedicine, or folk medicine; childbearing and family planning; the roles of 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: Women's Studies
Course: WST 166
Title: Pornography, Censorship, and Speech
Cross-listed: wst 166/W CLT102/W FS102/W
Instructor: T. DiPiero, S. Willis
Description: Should pornography be considered protected speech? If so, what are the cultural consequences of that protection? Should forms of representation be censored, and if so, how would these decisions be made? By examining a variety of representations from print and visual cultures, we will analyze competing definitions of pornography and their implications for our cultural context. We will also analyze the rights and responsibilities inherent in the notion of free speech. How might differences of gender or sexuality affect the way we produce and consume pornography? Can pornography shed any light on our current social and political conflicts? What is the nature and power of fantasy? Readings will include works by such writers as the Marquis de Sade, Andrea Dworkin, Catherine MacKinnon, Judith Butler, Kobena Mercer, Stanley Fish, Pat Califia, and others.

Department: Women's Studies
Course: WST 195Q
Title: Outlaw Heroes: Robin Hood to Eastwood
Cross-listed: ENG 195Q
Instructor: T. Hahn
Description: This course will examine the fascination, mainly within popular culture, of those who move outside the law in order to achieve some higher standard of justice. We will look at some "real life" bandits and some recent films (Butch Cassidy, Thelma and Louise, Dirty Harry), but our main focus will be on Robin Hood as he appears in ballads, woodcuts, tabloid "lives", contemporary pulp fiction, and cinema (Fairbanks and Flynn to Costner and Mel Brooks). Much of the early materials were TOO popular to be reproduced, and class members will have a chance to examine rare materials (and to help edit these for publication or Internet use, if they choose).

Women's Studies

Department: Women's Studies
Course: WST 200
Title: Colloquium in Women's Studies
Instructor: Fox, M. **Class Size:** 30
Prerequisites: At least one course in Women's Studies recommended
Coursework: 3-4 short papers/reports, 1 10-page final paper
Description: This colloquium investigates the important methodological, theoretical, and practical contributions to the study of women and gender. Weekly discussion sections will be led by a variety of faculty associates of the Susan B. Anthony Institute, each representing a different facet of the diverse field of Women's Studies. Issues to include the historical and psychological explanations for women's position in society, diversity among women, women in politics, religion, the media, women's health and sexuality, the family and the workplace. Required for all majors and recommended for minors or for people interested in understanding the essential issues that shape the field of Women's Studies. Basic text will be Virginia Sapiro's Women in American Society. WOMEN'S STUDIES FOUNDATION COURSE

Department: Women's Studies
Course: WST 201
Title: Women in History: Modern Europe 1750-1950
Cross-listed: WST 201W HIS 117/W
Instructor: Conklin, A.
Exams: three quizzes
Coursework: Two three-page papers; one five-page paper
Description: This course will examine all aspects of women's lives during the political, social, and economic turmoil of the modern era. Topics for lecture and discussion include domesticity, fertility, health, birth control, the relation between racial and gender issues. white collar, blue collar and pink collar work, and women's participation in political movements and overseas expansion. Readings in literature and history will focus on women in everyday life and in situations of crisis, like revolution and war. This course can be taken to satisfy the upper-level writing requirement. THIS IS A WOMEN'S STUDIES FOUNDATION COURSE

Department: Women's Studies
Course: WST 203
Title: Women, Politics and Social Change
Cross-listed: PSC 140
Instructor: Nan Johnson
Prerequisites: Successful completion of one of PSC 146/158/217
Restrictions: Special application required
Description: This class synthesizes summer REACH internships with course work completed in one of five designated REACH courses in political science. During the fall semester, students meet with the professor and experts in their areas of intellectual interest. Class meetings consist mainly of student presentations that provide a descriptive and analytical overview of the internship experience, accompanied by class discussion based on the presentations and core readings that identify commonalities in the different interests and experiences.

Department: Women's Studies
Course: WST 207
Title: Women and Gender in the History of Science
Cross-listed: WST 207W HIS 207/W
Instructor: Auchincloss, P. **Class Size:** 25
Coursework: 50-100 pages of readings per week; weekly short, informal essays on the readings and related topics; 3 papers, including at least one 10-12 page paper
Description: This course first examines women in relation to the historically evolving institution of science, and then the impact of science in shaping social concepts of gender, and by extension, the lives of men and women. The final segment of the course explores issues of scientific objectivity. Readings center on the works of Schiebinger, Kuhn, Hubbard, Traweek, Fox-Keller, Harding, and Haraway, providing an introduction to women's studies and social studies of science. WOMEN'S STUDIES FOUNDATION COURSE: FEMINISM IN SCIENCE AND TECHNOLOGY

Women's Studies

Department: Women's Studies
Course: WST 214
Title: Woman as Image and Text
Cross-listed: AH 207
Instructor: Seiberling, G. **Class Size:** 30
Coursework: The course will be taught by lecture and discussion. Students will write papers, and, depending on the size of the course, may give reports.
Description: This course will deal with the image of women in the art of different periods, with attention to the way in which cultural and social factors affect the construction of the idea of woman as well as the particular conventions for depicting women. Works by women artists will also be discussed.

Department: Women's Studies
Course: WST 215
Title: Nationalism and Gender
Cross-listed: ANT 233/433
Instructor: Kamran Ali
Description: Using ethnographic, historical, and literary sources, the course will investigate the colonial and post-colonial history of the nation-state. Focusing on material from South Asia and the Middle East, the course will develop a linkage between the discourse on nationalism, religious fundamentalism, and ethnic politics. The class will further evaluate how these nationalistic debates construct gendered bodies and redefine notions of masculinity and femininity in societies under discussion.

Department: Women's Studies
Course: WST 232
Title: Film History: Documenting Health
Cross-listed: WST 232/W ENG 254/W ENG 454 AH 272
Instructor: Cartwright, L.
Coursework: Two research papers.
Description: How have motion pictures influenced the course of public health, medical education, and popular consciousness about health issues in twentieth-century America? This course will provide an opportunity to pursue this question by considering the role of motion pictures in American public health campaigns and in medical education and research; and the impact of documentary films about health issues and medical history on health care professionals and the broader public. Topics considered will include the role of educational films in venereal disease, tuberculosis, and HIV/AIDS public health campaigns; the history of the medical teaching film; and the rights of patients imaged in medical media. Attendance at a weekly film screening will be required in addition to scheduled class meetings.

Department: Women's Studies
Course: WST 267
Title: Superfluous Men, Superior Women
Cross-listed: RUS262/W WST267/W CLT 262/W
Instructor: J. Givens
Coursework: papers:one 4-5 page,one 8-10 page
Description: Two distinct character types emerge in 19th Century Russian Literature:the superfluous man and the superior woman. Men full of talent and ambition but doomed to inactivity, juxtaposed to women who are emotionally and morally their superiors, whose strength, courage and willingness to take action show up their male counterparts. The paradox is that these characters were the creation of male writers. Heroines and their points of view in Russian Literature were essentially the product of male imaginations. The sources and consequences of this paradox and its roots in the issue of gender, Russian national identity and the ideology of idealization will be at the center of our investigation of works by some of the best known writers such as Pushkin, Lermontov, Gogol,Goncharov, Turgnrv, Dostoevsky, Chernyshevky, Tolstoy, and Checkhov.

Women's Studies

Department: Women's Studies
Course: WST 268
Title: Issues in German Cinema: Queer Film
Cross-listed: WST 268W GER249 CLT229/W FS229/W
Instructor: R. Halle
Description: The course will take as its object German film in order to examine how gender and sexuality are historically and socially constructed. We will use various methods to query a diverse group of films: cultural debates, social history, and, especially, theoretical works from feminist and queer film studies. While focusing on German film, the students will also gain insights into broader questions of narration, identity formation, power relations, and social movements.

Department: Women's Studies
Course: WST 282
Title: Debates in Feminist Political Theory
Cross-listed: PSC 282/482
Instructor: Lever, A.
Description: This course introduces students to debates in contemporary feminist political theory, and is divided into three parts. First, we will examine the question "What is Feminist Theory?" Second part of the course, "Theorising Feminist Issues" looks at such topics as sexual harassment, domestic division of labor, and the right to privacy. The final part, "Addressing Problems in Feminist Theory" looks at conceptual and practical questions facing feminists.

Department: Women's Studies
Course: WST 333
Title: Issues in Feminist Writing: Black Women Writers & Literacy
Instructor: J. Middleton
Exams: a midterm essay; a final essay
Coursework: Three oral presentations; substantial journal of literary narratives.
Description: Our class will read a variety of literacy narratives by black women and women of color who speak (and sing) about the politics of race, gender, writing, and difference: Gloria Anzaldúa, Paula Gunn Allen, Toni Cade Bambara, Hazel Caraby, Betty Carter, Barbara Christian, Ruby Dee, bell hooks, Zora Neale Hurston, June Jordan, Abby Lincoln, Audre Lorde, Paule Marshall, Trinh Minh Ha, Toni Morrison, Me'shell Ndege Ocello, Dianne Reeves, Ntozake Shange, Leslie Marmon Silko, and Patricia Williams. Using these perspectives we will explore language issues that are not usually discussed in the study of literature and writing, such as oral memory, listening, ritual and language, body language, the spoken and the written word, speaking pictures, gumbo ya ya, reading aloud, the participatory reader, the language of home and the language of school, gossip, music, song, and feminist oral traditions. Discussing the significance of these language issues, our class will also read a diverse range of writing by black women that illustrate new uses and conceptions of literacy, especially in the novel. Finally, our class will begin to write our own literacy narratives, exploring the significance of women, race, and writing.

Women's Studies

Department: Women Studies
Course: WST 334
Title: History of Ideas: Alien Sex
Cross-listed: ENG 334
Instructor: S. Higley
Description: "A man wants his virility regarded, a woman wants her femininity appreciated, however indirect and subtle...On Winter they will not exist. One is respected and judged only as a human being. It is an appalling experience." Ursula Le Guin. "Vive la difference." Katherine Hepburn to Spenser Tracy. This course examines representations of human sexuality in myth, fantasy, science fiction (and some mainstream), especially in terms of its extraordinary dimensions. What gets labeled "extraordinary" and why is a subject of inquiry in itself: do gods, demons, incubi, succubi, androids, androgynes, vampires, and alien species really offer a different sexuality or a way to "cross-dress" the sameness of human experience? How is hetero- as well as homosexuality alienized? What is the difference we are even in search of? We will look at the divine lover (Jupiter and Io; the Virgin and the Holy Spirit), the demonic lover (the Banshee, the Vampire), the inhuman lover (the alien, the android), the non-hetero lover (any number of realistic and fantastic situations). Texts by Octavia Butler, Angela Carter, Philip K. Dick, Tanith Lee, Ursula Le Guin, Joanna Russ, Anne Rice, Bram Stoker; film: "The Man Who Fell to Earth," Bram Stoker's "Dracula" (if available), "Demonseed," "The Crying Game: (if available).

Department: Women's Studies
Course: WST 335
Title: Major Literary Figures : Gloria Naylor
Cross-listed: ENG 335
Instructor: Grayson, D.
Description: Same as ENG 335

Department: Women's Studies
Course: WST 355
Title: Men, Women & War in the 20th Century
Cross-listed: HIS 355/455
Instructor: Pedersen, J. **Class Size:** 15
Description: Historians sometimes call the 20th century the Age of Total War. This seminar will focus on the changing lives of European men and women before, during, and after the First and Second World Wars. Special topics will include: changing images of masculinity and femininity, connections between the front and the homefront, the growth of welfare states, and the development of mass politics. Course reading will include a combination of history, autobiography, and fiction. Can be taken as a 3-credit reading course.

Department: Women's Studies
Course: WST 396
Title: Women's Studies Seminar - Kristeva
Cross-listed: CLT260/260W, CLT460
Instructor: Susan Gustafson
Coursework: Readings include: "Revolution in Poetic Language" (selections), "Desire in Language", "Tales of Love", "Black Sun", "Strangers to Ourselves", "Powers of Horror", "Kristeva Reader", and "Old Man and the Wolves".
Description: This course surveys Kristeva's writings in terms of their implications for psychoanalysis, feminism, ethics, the politics of identity/difference and cultural studies (literary, visual, etc.). Particular attention will be devoted to the question of Kristeva's embattled relationship to feminism (specifically the import of her ideas on the semiotic chora, motherhood/pregnancy, herethics, the phallic mother, non-essentialism, difference, and gay/ lesbian sexuality).

School of Engineering and Applied Sciences

Chemical Engineering

Department: Chemical Engineering
Course: CHE 101
Title: Air Pollution & Global Change: An Engineering Perspective
Prerequisites: High School Chemistry and pre-calculus
Restrictions: Only open to Freshman
Description: The application of engineering principles to atmospheric pollution. Aspects of the Earth's atmosphere and meteorology are described: e.g., temperature variation, cloud and precipitation formation, CO₂ accumulation. The engineering analysis of factors that affect global topics include: sources of pollutants, smog, atmospheric particulates, dispersion of pollutants, and stratospheric ozone depletion.

Department: Chemical Engineering
Course: CHE 113
Title: Chemical Process Analysis **Class Size:** 100
Prerequisites: Freshman Chemistry, MTH 161- MTH 162, or permission of instructor
Exams: Three quizzes plus a final
Coursework: Assignments: Problem sets, library and textbook readings, and an open-ended design problem.
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. Text: Felder and Rousseau, Elementary Principles of Chemical Processes, Wiley, 1978.

Department: Chemical Engineering
Course: CHE 225
Title: Chemical Engineering Thermodynamics
Instructor: Heist, R.H. **Class Size:** 50
Prerequisites: Sophomore standing
Exams: 4 exams
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 gases and liquids are developed and applications of thermodynamics to phase and chemical equilibria complete the course. Weekly problem assignments and problem review sessions.

Department: Chemical Engineering
Course: CHE 244
Title: Heat and Mass Transfer **Class Size:** 25
Instructor: Chen, S.H.
Prerequisites: 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.

Department: Chemical Engineering
Course: CHE 255
Title: Laboratory in Chemical Engineering Processes **Class Size:** 30
Instructor: Chimowitz, E.H.
Prerequisites: CHE 243, CHE 244, CHE 231, CHE 250
Exams: Three oral exams per group per semester
Coursework: Exploratory experiments and preliminary experimental design, as well as oral and written reports are 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.

Chemical Engineering

Department: Chemical Engineering
Course: CHE 260
Title: Biological System Fundamentals and Analysis
Cross-listed: CHE 460
Instructor: Wu, JHD
Description: Introduction to the basics of biological system structure and function: molecules, cells, and tissues. Molecular mechanisms of genetic processes, basic cell and mammalian physiology.

Department: Chemical Engineering
Course: CHE 272
Title: Process Dynamics and Control
Instructor: Friedly, J.C. **Class Size:** 60
Prerequisites: CHE113, CHE116 or by permission of instructor. Open only to junior and senior ChE majors.
Restrictions: Not open to freshmen and sophomores
Exams: Two or three hourly exams and possibly a final exam.
Description: Lectures, problem sets, and design projects. Introduction to the dynamic behavior of chemical engineering systems and to the analysis of feedback control systems. Methods of design of single feedback loops and multivariable systems are covered.

Department: Chemical Engineering
Course: CHE 273
Title: Chemical Engineering Process Design
Instructor: Chimowitz, E.H. **Class Size:** 40
Prerequisites: Senior standing in CHE
Restrictions: Open only to seniors or by permission of instructor
Description: The course will cover material in applied thermodynamics and fluid-phase equilibrium, heat exchanger network synthesis, the solution of systems of computer-aided chemical process design. A good background in computer programming will be necessary (FORTRAN language). In addition to the two examinations, a computer oriented design project will be assigned involving the use of microcomputers for process simulation. The class meets for two 1 1/2 hours periods per week for lectures. This course is 2 credit hours and will be taught in the second half of the semester.

Department: Chemical Engineering
Course: CHE 411
Title: Mathematics for Chemical Engineering I
Instructor: Feinberg, M.R.
Prerequisites: Senior standing in CHE.
Restrictions: Open only to seniors or by permission of instructor
Description: Mathematical prerequisites for graduate courses in engineering. Modern linear algebra, multivariable calculus, introduction to stability theory of differential equations with particular emphasis on chemical reactors.

Department: Chemical Engineering
Course: CHE 441
Title: Momentum and Energy Transport
Instructor: Jorne, J.
Prerequisites: Senior standing in CHE.
Restrictions: Open only to seniors or by permission of instructor
Description: The basic laws of transport phenomena and derivation of the partial differential equations governing momentum and energy transport. Applications of these differential equations to problems of chemical engineering. Dimensional analysis. The macroscopic application.

Department: Chemical Engineering
Course: CHE 460
Title: Biological System Fundamentals and Analysis
Instructor: Wu, JHD
Description: Introduction to the basics of biological system structure and function: molecules, cells, and tissues. Molecular mechanisms of genetic processes, basic cell and mammalian physiology.

Electrical Engineering

Department: Electrical Engineering
Course: EE 101Q
Title: Introduction to Electrical Engineering
Instructor: Mottley, J. **Class Size:** 50
Prerequisites: Concurrent registration with MTH 161
Restrictions: Permission of Instructor Open to freshmen only
Exams: Three exams
Description: Basic concepts of electronics as applied to engineering problem solving. Fundamental building blocks of analog and digital circuits. This course is based on several laboratory modules, all involving using electronics to solve an engineering problem. There are three lecture classes per week and a three hour laboratory session for most of the weeks in the semester. Topics include: charge, current, and voltage as fundamental quantities, passive RLC elements, diode, transistors, amplifiers, and elementary networks; transfer functions, feedback; elementary analog system, Boolean algebra, elementary switching design.

Department: Electrical Engineering
Course: EE 111
Title: Circuits
Instructor: Fauchet, P. **Class Size:** 80
Prerequisites: Concurrent registration in MTH 163 and PHY 122
Exams: 3 exams and a final, 5 quizzes, weekly graded homework
Description: Circuit analysis considering passive RLC elements, ideal and controlled sources. Topics: network theorems, steady state and transient solutions, complex frequency, harmonic wave-form analysis, and two-port network descriptions. Laboratory: Electrical measurement instruments and techniques.

Department: Electrical Engineering
Course: EE 171
Title: Introduction to Computers and Programming
Instructor: K Stephenson **Class Size:** 140
Exams: final exam
Description: Introduction to principles of well-structured and efficient computer programming in the C language. Topics include: development and analysis of algorithms, debugging strategies, program verification, computer hardware, basic system software, and scientific/engineering computing.

Department: Electrical Engineering
Course: EE 200
Title: Computer Architecture
Cross-listed: EE400
Instructor: C.W. Merriam **Class Size:** 40
Prerequisites: EE 171 or CSC 181
Exams: Final Exam
Description: Machine-level phenomena, comparative computer architecture, concurrency, synchronization, Petri nets, computer emulation, and meta assemble.

Department: Electrical Engineering
Course: EE 201
Title: Computer Organization
Instructor: C.W. Merriam **Class Size:** 42
Prerequisites: EE 202 and EE 200
Exams: 2 exams and a final, 5 quizzes and graded homework
Description: Registers, data paths, computer arithmetic and algorithms, coding of binary data, pipelining, parallel processors, interconnection networks

Department: Electrical Engineering
Course: EE 215
Title: Integrated Circuit Systems
Instructor: V. Derefinko **Class Size:** 20
Prerequisites: EE 221
Restrictions: Open only to seniors or by permission of instructor
Description: Characteristics and specifications of analog integrated circuits, including operational amplifiers, voltage regulators, signal generators, active filters, phase-locked loops, analog-to-digital converters and digital-to-analog converters. Performance, measures, error budgets and parameter design trade-offs. Laboratory.

Electrical Engineering

Department: Electrical Engineering
Course: EE 221
Title: Electronic Devices and Circuits
Instructor: R. Sobolewski **Class Size:** 60
Prerequisites: EE 212
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.

Department: Electrical Engineering
Course: EE 223
Title: Semiconductor Devices
Cross-listed: EE 423
Instructor: Bocko, M. **Class Size:** 50
Prerequisites: EE 221, EE 230, and PHY 123
Exams: Midterm, Final exam
Description: Review of modern solid state devices, their fabrication and principles of operation. Solid State physics fundamentals, free electrons, band theory, transport properties of semiconductors, tunneling, Physics of thin films. silicon intergrated circuit processing technology. Microwave and ultrafast devices.

Department: Electrical Engineering
Course: EE 234
Title: Transducers and Actuators
Cross-listed: EE 434
Instructor: Jones, T.B. **Class Size:** 60
Prerequisites: MTH 163, MTH 164, PHY 122, EE 212, EE 230
Exams: 1 midterm in class, final exam
Coursework: Homework (8 assignments) Laboratory (4 assignments)
Description: Static and quasistatic field descriptions for micro-electromechanical transducers. Lumped parameter electromechanics and two-port descriptions. Reciprocity, sensitivity, and noise considerations. Review of fabrication technologies. Case studies of practical micro-actuators and sensor elements.

Department: Electrical Engineering
Course: EE 235
Title: Introduction to Opto-Electronics
Cross-listed: EE 435
Instructor: Hsiang, T.Y. **Class Size:** 30
Prerequisites: EE230 & 221 or equivalent/permission of instructor
Description: Introduction to the 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 Engineering
Course: EE 241
Title: Signals
Instructor: Tekalp, A. **Class Size:** 30
Prerequisites: MTH 164 and EE 212
Exams: Two mid-terms and one final
Description: Introduction to discrete and continuous 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 Engineering
Course: EE 243
Title: Introducton to Random Processes
Cross-listed: EE 440
Instructor: Waag, R.C. **Class Size:** 30
Prerequisites: EE 241 and EE 242
Exams: midterm and final
Coursework: homework assignments
Description: Introduction to statistical methods in communication engineering. Probability and statistics, random wave-form descriptions, Gaussian random process, matched, Wiener, and Kalman-Bucy filtering and effcent signaling for message sequences.

Electrical Engineering

Department: Electrical Engineering
Course: EE 246
Title: Digital Signal Processing
Cross-listed: EE 446
Instructor: E. Titlebaum **Class Size:** 20
Prerequisites: EE 242
Restrictions: Permission of Instructor
Description: Review of discrete-time linear systems and random processes, Z-transforms, difference equations, discrete Fourier analysis, circular convolutions, FFT algorithms, and optimum discrete-time filtering based on second-order statistical properties. Laboratory

Department: Electrical Engineering
Course: EE 261
Title: Digital Integrated Circuit Design
Cross-listed: EE 461
Instructor: A. Albicki **Class Size:** 20
Prerequisites: EE 221 and EE 202
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 Engineering
Course: EE 399
Title: Senior Seminar
Instructor: J. Mottley **Class Size:** 50
Description: Study of ethical, social, economic and safety considerations that arise in engineering practice by discussion of appropriate novels, movies, essays, videos and other materials. Presentations by outside speakers. Required of all electrical engineering students.

Department: Electrical Engineering
Course: EE 404
Title: Special Projects: High Performance Microprocessor-Based Systems
Instructor: Albonesi, D. **Class Size:** 20
Prerequisites: EE203/403 or equivalent
Exams: 2 exams and a final
Description: Current techniques in high-performance microprocessor-based systems design. Interconnection networks. Multiprocess systems design. Analysis of current high performance microprocessors. Possibilities for future designs.

Department: Electrical Engineering
Course: EE 405
Title: Data and Computer Communications
Instructor: A. Albicki **Class Size:** 10
Prerequisites: EE200
Restrictions: Permission of Instructor
Exams: Final exam
Coursework: Semester long project on sliding window protocols.
Description: Data transmission and encoding. Error detection techniques. Automatic repeat request (ARQ) protocols. Medium access control techniques: Aloha, CSMA/CD, Token Ring, FDDI, Scramnet, Network control stability. High-speed gigabit networks. ATM. Performance evaluation and monitoring M/M/1 Queues and networks of Queues.

Department: Electrical Engineering
Course: EE 406
Title: Numerical Computation and Analysis
Instructor: Merriam, C. **Class Size:** 30
Prerequisites: MTH161 through MTH164 and EE410, or equivalents. Working knowledge of a high-level programming language, such as Pascal or C.
Description: Machine computation and number systems. Approximation and analysis of numerical errors. Iteration, convergence, and numerical stability. Minimization problems. Interpolation and extrapolation. Numerical integration and differentiation. Initial-value problems. Linear algebraic problems. Eigenvalue problems, as time permits.

Electrical Engineering

Department: Electrical Engineering
Course: EE 447
Title: Image Processing
Instructor: Saber, E. **Class Size:** 30
Prerequisites: EE241 and EE242 or permission of instructor
Exams: Midterm, term project and final
Coursework: homework and project assignments
Description: Digital image fundamentals, two-dimensional sampling, Z-transform, two-dimensional Fourier transform, Image enhancement, image restoration, image compression, image segmentation.

Department: Electrical Engineering
Course: EE 465
Title: Performance Issues in VLSI/IC Design & Analysis
Instructor: E. Friedman **Class Size:** 15
Restrictions: Permission of Instructor
Exams: 1 midterm, 1 final report 1 topical presentation
Description: A reading course in which some of the primary as well as recent papers in the field of VLSI digital and analog design and analysis will be reviewed and discussed. It is expected that each student will participate in the discussions and also lead the discussion for a number of papers. The focus will be to provide additional background and insight in some of the most active performance related research areas of the field, such as, CMOS delay and modeling, timing and signal delay analysis, low power CMOS design, optimal transistor sizing and buffer tapering, pipelining and register allocation, synchronization and clock distribution, retiming, interconnect delay, dynamic CMOS design techniques, asynchronous vs. synchronous tradeoffs, BiCMOS, and CMOS power dissipation.

Department: Electrical Engineering
Course: EE 547
Title: Seminar on Advanced Image Processin **Class Size:** 20
Coursework: One presentation from each student on his/her individual research or recently published paper.
Description: 2 credit course includes formal platform for faculty and graduate student presentations on various state-of-the-art imaging processing research topics.

Mechanical Engineering

Department: Mechanical Engineering
Course: ME 104Q
Title: Life's Devices: Design in Biological and Man Made Structures
Instructor: Lambropoulos J., Perucchio R. **Class Size:** 30
Description: This course will discuss mechanical design in the context of two areas in which most students already have a very good intuitive understanding: the human and animal bodies, and human-made structures which humankind has been using over the centuries. In the case of biological design, students will learn how the size of many living biological structures is related to their mechanical design for the transmission of force and power, and how the mechanical design of "small" organisms is fundamentally different from "large" ones, although the physical principles are exactly the same. In studying mechanical design of human structures, students will discuss simple devices used for transmitting force and power for both peaceful and war-like purposes.

Department: Mechanical Engineering
Course: ME 110
Title: Introduction to CAD
Instructor: Ronald, C. **Class Size:** 30
Exams: 2 exams, midterm and a final
Description: This course covers engineering drawing using the Computer Aided Design software Microstation. Topics include orthographic projections, section and auxiliary views, dimensioning and tolerancing. Students will complete the course with a fundamental ability to create and understand engineering drawings using state of the art PC CAD software. Lectures will make use of a computer projection screen as well as 25 individual computers.

Department: Mechanical Engineering
Course: ME 120
Title: Engineering Mechanics I
Instructor: Ronald C. **Class Size:** 90
Prerequisites: MTH 161
Exams: 3 midterms and 1 final
Description: Vector algebra of forces and moments. Free body diagrams and equilibria of particles and rigid bodies. Centroids and centers of gravity. Internal forces in trusses, frames, machines and beams. Friction and applications to machines. Moments of inertia and the principle of virtual work for rigid bodies.

Mechanical Engineering

Department: Mechanical Engineering
Course: ME 121
Title: Engineering Mechanics II
Instructor: Simon A. **Class Size:** 70
Prerequisites: MTH 162 or equivalent, ME 120
Exams: 3 in-class exams and 1 final (optional).
Description: Kinematics and dynamics of particles and rigid bodies; equations of motion, force and acceleration, work and energy, impulse and momentum.

Department: Mechanical Engineering
Course: ME 164
Title: Applied Vector Calculus and Matrix Algebra
Instructor: McKinstrie, C.
Prerequisites: For 1997, enrollment will be limited to majors in Mechanical Engineering and Physics or by permission of Instructor.
Description: Review of three-dimensional geometry and vector algebra. Scalar and vector fields; gradient, divergence and curl. Line, surface and volume integrals; theorems of Green, Stokes, and Gauss. Systems of linear equations and linear transformations; matrices and matrix algebra. Applications in engineering and science.

Department: Mechanical Engineering
Course: ME 201
Title: Boundary Value Problems
Instructor: Clark A. **Class Size:** 50
Prerequisites: MTH 163 and MTH 164
Exams: 2 Midterm and 1 Final
Coursework: Weekly homework
Description: Formulation of partial differential equations for physical problems; Fourier series; separation of variables leading to Fourier series; Sturm-Liouville theory; eigenfunction expansions and separation of variables; Fourier transform; similarity methods; Fourier-Bessel expansions and separation of variables in cylindrical coordinates. Equations dealt with in the course are the Laplace equation, the heat equation, the wave equation, and related equations. Applications are to such areas as heat conduction, fluid flow, electromagnetic theory, acoustics and quantum mechanics.

Department: Mechanical Engineering
Course: ME 204
Title: Mechanical Design
Instructor: Genberg V. **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 Mech. Eng.
Instructor: Perucchio, R. **Class Size:** 45
Prerequisites: MTH 163/MTH 164
Exams: Three exams
Coursework: Eight homework assignments, each including programming assignments as well as reading and written assignments, term project.
Description: Introduction to FORTRAN; 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: Gans R. **Class Size:** 30 60
Prerequisites: MTH 163, MTH 164; PHY 121
Exams: 3 in class exams, optional final
Coursework: Written problem assignments
Description: Dimensional analysis; kinematics of moving fluids; Bernoulli theorem; potential flow; integral and differential equations of motion; conservation of mass, momentum and energy; lift and drag; vorticity; viscous flow; boundary layers; one-dimensional compressible flow; shock waves.

Mechanical Engineering

Department: Mechanical Engineering
Course: ME 242
Title: Solids and Materials Laboratory
Cross-listed: ME 462
Instructor: Funkenbusch P. **Class Size:** 42
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
Instructor: Betti R. **Class Size:** 60
Prerequisites: ME 123, ME 225 (may be taken concurrently)
Exams: Two midterm exams and a final exam
Coursework: Design project
Description: Vapor and Gas Power Systems; Pumps, Compressors and Turbines; Nuclear Reactors; Refrigeration and Air Conditioning; Combustion.

Department: Mechanical Engineering
Course: ME 280
Title: Introduction to Materials Science
Instructor: Burns S.J. **Class Size:** 40
Prerequisites: MTH/ME 163, 164; PHY 123
Exams: One or two midterms, one final
Description: The principles and applications of materials science applied to metals and ceramic alloys, polymers, semiconductors and composites. How a materials microstructure including atomic arrangements, crystal structures, defects, phases, composition, and interfaces determines the macroscopic properties. Mechanical properties are emphasized but not to the exclusion of electrical and magnetic properties.

Department: Mechanical Engineering
Course: ME 434
Title: Introduction to Plasma Physics I
Instructor: Meyerhofer D. **Class Size:** 10
Prerequisites: EE 231, OPT 262 or PHY 217
Exams: 1 midterm, 1 final
Description: Single-particle motion, orbit theory, adiabatic invariants, the ponderomotive force. Collective phenomena and particle collisions. The two-fluid model: waves in warm unmagnetized plasma, waves in cold magnetized plasma, instabilities in drifting plasmas. The magnetohydrodynamic (MHD) model: magnetosonic waves, diffusion of magnetic fields, the magnetic pinch effect. Introduction to the Vlasov model. Textbook: N.A. Krall & A.W. Trivelpiece, Principles of Plasma Physics

Department: Mechanical Engineering
Course: ME 436
Title: Compressible Flow
Instructor: Thomas J.
Prerequisites: ME 225 and ME 201 or MTH 281
Description: Thermodynamics of gases; dimensional analysis; acoustics; compressible potential flow; steady and unsteady one-dimensional flow; shock waves; characteristics; radiative flows.

Department: Mechanical Engineering
Course: ME 443
Title: Mechanical Vibrations
Instructor: Gracewski S.
Prerequisites: ME 213
Description: One, two and many degrees-of-freedom systems. Complex representation; free and forced vibration; transient vibration; damping. Vibration of strings, beams and membranes.

Department: Mechanical Engineering
Course: ME 449
Title: Elasticity
Instructor: Taber
Prerequisites: ME226; ME163 or MTH163
Description: Analysis of stress and strain; equilibrium; compatibility; elastic stress-strain relations. Torsion and bending of bars. Plane stress and plane strain; stress functions.

Mechanical Engineering

Department: Mechanical Engineering
Course: ME 460
Title: Thermodynamics of Solids
Instructor: Li J. **Class Size:** 10
Prerequisites: ME 123 or CHE 225
Exams: 1 exam
Coursework: Term paper
Description: Review of basic thermodynamic quantities and laws; equations of state; statistical mechanics; heat capacity; relations between physical properties; Jacobian algebra; phase transformations, phase diagrams and chemical reactions; partial molal and excess quantities, phases of variable composition; free energy of binary and multicomponent systems; surfaces and interfaces. The emphasis is on the physical and chemical properties of solids including stress and strain variables.

Department: Mechanical Engineering
Course: ME 462
Title: Experimental Materials Science
Cross-listed: ME 242
Instructor: Funkenbusch P. **Class Size:** 42
Prerequisites: ME 280, ME 226
Coursework: Laboratory Projects
Description: Lecture and laboratory. Lecture: engineering problem solving methodologies, review of basic statistics, introduction to design of experiments (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).

Department: Mechanical Engineering
Course: ME 483
Title: Biosolid Mechanics
Cross-listed: BME 483 and BPH 483
Instructor: Taber L. **Class Size:** 25
Prerequisites: ME 226 or equivalent
Exams: 2 exams
Description: Application of engineering mechanics to biological tissues including muscle, soft tissue, cell membranes, and bone. Realistic modeling of biological structures including the heart, blood vessels, and the inner ear. Finite elasticity theory, anisotropy, viscoelasticity, poroelasticity. Mechanics of growth. Test: Fung, Biomechanics

Optics

Department: Optics
Course: OPT 223
Title: Quantum Theory of optical Materials and Devices
Description: Wave mechanics (Schrodinger's eqn.)
Measurement, the wavefunction and optical analogies
Electron waves in crystalline solids (Bloch's Thm. and K.-P.model)
Quantum Wells and the particle-in-a-box
Optical properties of metals
Absorption and emission in semiconductors
Semiconductor heterojunctions
Some semiconductor optoelectronic devices (e.g. lasers, PIN detectors)

Optics

Department: Optics
Course: OPT 224
Title: Lasers and Applications
Prerequisites: Optics majors should have taken, or be taking concurrently, OPT 221 and OPT 262. MTH 163 is recommended.
Description: Basic constituents of lasers and laser action
 Fundamental interactions of light and matter
 Linear and nonlinear optical amplification in two-level systems
 3- and 4-level gain media
 Steady-state laser operation: threshold and slope efficiency
 Cavity modes and laser linewidth
 Resonator design using ABCD rules
 Intracavity elements: etalons, gratings, AO and EO switches and modulators
 Transient laser operation: relaxation oscillations, Q- and gain switching
 Modelocked laser operation
 Major types of laser systems
 Applications (e.g. communications, materials processing, fusion etc.)

Department: Optics
Course: OPT 226
Title: Optoelectronics I: Devices
Description: Waves in restricted geometries
 Planar slab waveguides
 Optical fibers
 Numerical methods for waveguide design
 Dispersion and loss
 Nonlinear pulse propagation (solitons)
 Coupled waveguides
 Fiber couplers
 Fiber gratings
 Grating couplers
 Laser-waveguide coupling
 Modulators Detectors

Department: Optics
Course: OPT 241
Title: Introduction to Optical Imaging Systems
Instructor: Moore, D.
Prerequisites: MTH 161, Optics computing requirement
Description: Gaussian systems
 Paraxial ray tracing
 Optical invariants
 Brightness Theorem and Conservation of Energy
 ABCD matrices
 First-order design
 Telescopes and microscopes
 Simple optimization
 Optical instrumentation (e.g. spectroscopes)
 Nonimaging systems

Department: Optics
Course: OPT 246
Title: Optical Interference Coating Technology
Instructor: Smith, D.
Prerequisites: OPT 262
Description: Optical interference in a multilayer stack and its application to anti-reflection coatings, beamsplitters, laser mirrors, polarizers, and bandpass filters.

Department: Optics
Course: OPT 256
Title: Optics Laboratory
Instructor: Givens, M.P., Teegarden, K.
Prerequisites: OPT 242, OPT 261
Description: Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments.

Department: Optics
Course: OPT 396
Title: Honors Project
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.

William E. Simon School of Business Administration

Department: Simon School
Course: ACC 201
Title: Principles of Accounting **Class Size:** 55-70
Restrictions: Not open to freshmen
Description: An introduction to the principles and procedures employed in analyzing business transactions, recording their financial effects, summarizing them in financial statements and interpreting these statements.

Department: Simon School
Course: ACC 221
Title: Cost Accounting **Class Size:** 35
Prerequisites: ACC 201
Description: A study of the accounting problems involved in determining, analyzing, and controlling production and distribution costs, and income determination for financial statements. Budgetary control, standard costs, and other topics are discussed from the viewpoint of management use in planning and control.

Department: Simon School
Course: CIS 215
Title: Foundations of Management Info Systems **Class Size:** 20
Prerequisites: One of EE171, OPT 105, CSC 110, CSC 181, or any 200-level CSC course.
Description: A survey of information systems 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, management of computing and 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
Description: This course provides a market oriented framework for analyzing the major types of financial decisions made by corporations. Discounted cashflow techniques are introduced and applied to the 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 Administration **Class Size:** 30-40
Restrictions: Not open to freshmen
Description: An introduction to the principle activities, responsibilities, types of policy problems, and interrelationships of the main phases of business, including personnel, production, marketing, and finance. Frequent use is made of business cases for illustrative purposes and to introduce the student to the method of business problem analysis.

Department: Simon School
Course: LAW 205
Title: Business Law **Class Size:** 30-40
Restrictions: Not open to freshmen and sophomores
Description: Study of basic principles in several fields of law of significance to businesses and other organizations, including constitutional law, contracts and business torts; preceded by a review of certain environmental and historical aspects of the law, including the legal processes by which our laws are created, and the functions of the courts. Throughout, the emphasis is on developing an understanding of the reasoning process used by the courts to resolve disputes and define new law.

William E. Simon School of Business Administration

Department: Simon School
Course: MKT 203
Title: Principles of Marketing **Class Size:** 30-40
Prerequisites: ACC 201; ECO 207 or equivalent
Restrictions: Not open to freshmen
Description: A study of the problems involved in the movement of goods from producers to consumers and industrial users through the different channels of distribution. Marketing functions performed by manufacturers, wholesalers, retailers, agent middlemen and market exchanges are analyzed, and major marketing policies are critically analyzed. Such topics as pricing, branding, choice of distribution channels, selective selling, and the planning and administration of sales programs are evaluated.

Department: Simon School
Course: OMG 231
Title: Operations Management **Class Size:** 20
Restrictions: Not open to freshmen
Description: Discussion of 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 which have proved useful. Topics include strategy and tactics, decision theory, forecasting, production management, material planning, project planning and quality control. Video presentations and case discussions are also included to gain practical insights into the operations function.

Warner School

Department: Warner School
Course: ED 211
Title: Philosophy of Education
Cross-listed: ED 411
Instructor: Curren, R.
Description: A small number of historically influential philosophical theories of education are examined as a background to constructing a contemporary philosophical perspective on educational practice. The course focuses on theories of human development and of a just social order, and the role of these theories in guiding educational practice. Readings are drawn from such figures as Aristotle, Rousseau, Kant, and Dewey, and from the best of recent philosophical work on education.

Department: Warner School
Course: ED 215
Title: Adolescent Development
Cross-listed: ED 415
Instructor: Barclay, C. or Smetana, J.
Description: Designed to provide an understanding of the adolescent student population. Integrates issues and theories of adolescent development with group dynamics and with information on adolescents in school and other settings.

Warner School

Department: Warner School
Course: ED 226
Title: Democracy and Education
Cross-listed: ED 426
Instructor: Curren, R.
Description: Explores in detail a number of issues pertaining to the nature of democracy and the role of education in a democracy. Some of the questions to be addressed are as follows: What are the defining characteristics of democracy, and what makes democracy a superior form of government? What are the conditions necessary for democracy to work, and what role should schools play in creating and maintaining those conditions? What implications does this have for the curriculum and the internal structure of schools? What aspects of the function of public schools should be subject to local democratic control and which should not be? In general, how must schools be run if education is to be democratic? Readings pertain to the theory of democracy, the theory of democratic education, and to specific proposals for making education more democratic.

Department: Warner School
Course: ED 228
Title: Ethics and Education
Cross-listed: ED 428
Instructor: Curren, R.
Description: Explores the moral dimensions of education, considered not only from a student-centered perspective, but also from the perspectives of the various occupational roles which educators occupy.

Department: Warner School
Course: ED 410
Title: History of American Education
Instructor: Gordon, L.
Description: Defines education broadly as the formal or conscious transmission of culture, in family life, colleges, peer groups, youth agencies, religious and cultural organizations, and the media. The processes of cultural transmission across four centuries of American history, beginning in the mid-1600s, are investigated, but the major emphasis is on post-1900 themes. Issues of race, class, ethnicity, and gender are a key component of the course. Readings involve mostly primary sources, including novels, autobiographies, and newspapers, as well as selected interpretation.

Department: Warner School
Course: ED 412
Title: Sociology of Education
Description: Includes analysis of the sociohistorical development of American public schooling, the social organization of educational experience, and the relationship between social and educational change. Alternative social paradigms are presented and used as the basis for analyzing schooling and education.

Department: Warner School
Course: ED 414
Title: Social and Personality Development
Instructor: Smetana, J.
Description: A review of theory and research in social and personality development and discussion of their pertinence to issues of application in educational settings, including daycare, schools, and health care institutions.

Warner School

Department: Warner School
Course: ED 417
Title: The Education of American Women: A Social and Cultural History
Instructor: Gordon, L.
Description: Examines American women's experiences with education and as educators from the seventeenth century to the present. Topics to be covered include women's role in family or domestic education; the gradual admission of women to formal schooling between 1800 and 1900; the "feminization" of the teaching profession; social class, racial, and ethnic differences among women as they affect education; women as academics; women in other educating professions, such as social work and journalism; and affirmative action. These themes are discussed within the context of American history, including economic and ideological changes as they relate to the social construction of gender.

Department: Warner School
Course: ED 418
Title: The Family and Social Dynamics
Instructor: Dannefer, D.
Description: Studies the family as a social institution, exploring how the family is related to other institutions and how this relation has changed historically. Considers the reciprocal relations of the family with forces external to it, and how it is constituted by, and articulated with, the lives of its individual members.

Department: Warner School
Course: ED 419
Title: Sociology of the Life-Course
Instructor: Dannefer, D.
Description: Examines how the individual's biographical experience and view of his or her personal past and future are shaped both by societal institutions and by interpersonal expectation. Maturation, aging, and developmental issues relating to family and career are examined in a variety of cultural and historical settings, but with special attention to contemporary society.

Department: Warner School
Course: ED 424
Title: Professions in American Culture
Instructor: Kimball, B.
Description: Beginning in the colonial period, this course investigates the development of the idea of "profession" in American culture by way of examining the historical experience of the vocations of theology, law, medicine, and education.

Department: Warner School
Course: ED 425
Title: Urban Education: Problems and Prospects
Instructor: Allen, H.
Description: Investigates theory, research, and practices influencing the progress and survival of urban schools. Based upon a sociological analysis of events and processes in urban areas, the course examines how complex social forces affect teachers, students, administrators, curricula, and the organization of schools. Issues related to deindustrialization, segregation, family composition, and social inequality are stressed. The effects of political and economic transformations are also covered.

Department: Warner School
Course: ED 427
Title: Cultural Studies in Education and Society
Description: Addresses the question of difference and diversity in social and cultural contexts. Cultural studies open up new ways of thinking about the everyday experiences of groups marginalized by race, class, gender, and ethnic difference. Educational studies raise questions about knowledge and cultural representations in educational encounters. A major assumption of this course is that an understanding of the dynamics of teaching and learning requires a strong foundational knowledge of the cultural processes which operate within the context of schools. Through reflection on theoretical writings and fictional works, as well as film and other popular media, students examine how culture is differently lived, represented, and signified, and how the politics of understanding and misunderstanding work through educational practices.

Warner School

Department: Warner School
Course: ED 429
Title: Theories of Human Development
Description: Designed as an introductory graduate-level course on the theories of human development. Theories are about ontogeny, the process of individual change over time that occurs in social, cultural, and historical contexts. Basic approaches to development are scrutinized from a psychosocial perspective.

Department: Warner School
Course: ED 431
Title: Minorities in Education
Instructor: Allen, H.
Description: Examines the sociological impact of intergroup and intragroup processes upon the conduct and outcomes of education, focusing primarily upon the institutionalized role of "minority status" from elementary schools to colleges and universities. Research and theory from the sociological study of racial and ethnic groups and the social psychological literature are considered in detail, supplemented by historical studies. Attention is directed across the educational spectrum at ascertaining the influences of size, heterogeneity, inequality, and other systemic or institutional dynamics upon the formation of dominant and subordinate groups. Disparities in power, prestige, wealth, access, and opportunities between minority and majority groups are also examined, along with the effects of prejudice, discrimination, and ethnicity upon public policies. The course aims to develop competencies for resolving racial and ethnic dilemmas in education.

Department: Warner School
Course: ED 512
Title: Pedagogies: Classical and New
Instructor: Kimball, B.
Description: Teaching has been enormously influenced by certain longstanding pedagogies, such as Socratic, scholastic, lecture, and case methods of teaching. This course examines the origins and development of such longstanding pedagogies, in light of various critiques of and responses to these teaching methods, such as Deweyan, Freirean, and feminist pedagogies.

Department: Warner School
Course: EDU 400
Title: Theories of Organizational Behavior and Leadership
Instructor: Immegart, G.
Description: This course draws upon the social and behavioral sciences, particularly the theoretical formulations and research studies in public and private administration, to provide a foundation for the processes and development of educational organization. It provides an overview of educational leadership and the basis for the assessment of organizational efficiency.

Department: Warner School
Course: EDU 414
Title: Home, School, and Community
Instructor: Smith, J.
Description: Explores schooling as part of the larger context of community and social interaction. Includes discussion of the historical development of local control of schools in the U.S. and the shifting role of community networks as they have changed their responsibilities to raising children. Students explore research and theory concerning parental involvement in schooling, local control of schools and the competing influences of state and political powers, neighborhood reform efforts, and the privatization of schooling through choice or voucher mechanisms. Students are responsible for three graduate-level position papers during the semester, each integrating conclusions from available research with reflection and critical theory concerning community and school ties.

Department: Warner School
Course: EDU 442
Title: Race, Class, and Gender in American Education
Instructor: Hursh, D.
Description: Whether and how schools (K-12) reproduce race, class, and gender inequalities are the focus of this course. The course integrates educational theory and teaching practices by analyzing recent changes in sociological and political explanations for social inequality, reviewing research on the reproduction and production of educational inequalities, and evaluating and implementing proposals for school and classroom reform.

Warner School

Department: Warner School
Course: EDU 453
Title: Small Group Dynamics
Instructor: Jefferson, F.
Description: Introductory course in understanding small group behavior. Topics to be treated include the attributes of small groups and the forces that develop within them, individual behaviors within groups, interaction processes, and leadership. Both didactic and experiential approaches are used. Applications can be made to a number of settings: classrooms, administrators' cabinet, faculty committee, counseling groups and family.

Department: Warner School
Course: EDU 467
Title: Language Development
Instructor: French, J.
Description: An examination of the processes involved in language development. Developmental changes in syntax, semantica, phonology, and conversation are discussed. Theoretical and empirical research in the area of language acquisition are presented and evaluated.

Department: Warner School
Course: EDU 470
Title: Multicultural Perspectives in Counseling
Instructor: Mackie, K.
Description: This course deals with societal views of minority groups; cultural world views and communication considerations; theories and concepts in cross-cultural counseling and training; sociohistorical perspectives on ethnicity and differences and similarities among racial, ethnic, and cultural groups. A critique of traditional counseling practice in light of advances in multicultural theory is also offered.

Department: Warner School
Course: EDU 472
Title: Introduction to Community Counseling
Instructor: Levers, L.
Description: This course provides an introduction to the helping relationship, the various roles of the professional counselor in community agencies and facilities, and professional and practice issues related to providing mental health services. Issues covered in the course include the individual in a community context, the human services delivery system, team development and networking strategies, crisis intervention and case management strategies, professional organizations and credentialing, legal and ethical behaviors and issues, and basic communication skills with pre-practicum experiences in and out of class required.

Department: Warner School
Course: EDU 484
Title: Curriculum in Higher Education
Instructor: Kimball, B.
Description: This course examines the origins and development of the undergraduate curriculum, especially the liberal arts, and analyzes historical and current debates about the meaning of general and liberal education.

Department: Warner School
Course: EDU 488
Title: Students and Colleges: Past and Present
Instructor: Wechsler, H.
Description: This course focuses on the campus experiences of American college students from the founding of Harvard (1636) to the present, with some attention to Western European comparisons. Topics explored include changing demographic profile of college students over time; formation and nature of student culture and subcultures, and their relationship to the college and society; minority and women students; and the long term effects of college on values and careers.

Warner School

Department: Warner School
Course: EDU 490
Title: Higher Education Law
Instructor: van Geel, T.
Description: An investigation of legal concepts of higher education as they relate to the student, the faculty and staff, the board of trustees, the central administrative officers, the university as a corporate entity, research and publications, college property, and administration of funds.

Department: Warner School
Course: EDU 492
Title: Governance, Policy, and Administration of Higher Education
Instructor: Wechsler, H.
Description: A consideration of how institutions of higher education are governed and organized, how the governance and organization influence the formation and content of policy.

Department: Warner School
Course: EDU 493
Title: History of Higher Education
Instructor: Wechsler, H.
Description: An introduction to the history of the formal institutions of higher education, beginning with the medieval universities. Emphasizes the American experience from the seventeenth century through the mid-twentieth century.

Department: Warner School
Course: EDU 499
Title: Sociology of Higher Education
Instructor: Allen, H.
Description: Probes the nature of the relationship between higher education and society. It explores the systemic properties, operations, and processes of higher education from a sociological viewpoint. Emphasis is placed upon the social role and effects of institutions, faculty, invisible colleges, and students within colleges and universities as well as the consequences of their activities for society. The informal and formal dimensions of academic organization are also examined. Topics include the organization of higher education, intergroup relations, social stratification, the production of knowledge, the sociology of science, and academic work structures. Relevant policy issues will also be scrutinized.

Department: Warner School
Course: EDU 570
Title: College Student Affairs Work
Description: This course presents an overview to the field of college student affairs work. Its major purpose is to provide a basic understanding of the field's history, philosophy, principles, skills, functions, and current issues. It emphasizes the nature of the basic interpersonal communication skills required in the field, as well as the acquisition of competency in use.

Department: Warner School
Course: EDU 576
Title: Contemporary Policy Issues In Higher Education
Instructor: Wechsler, H.
Description: Surveys key historical and contemporary relationships between American colleges and universities and other social institutions. Examines federal and state policies, the economy, philanthropy, religion, and the professions. Addresses the changing demographics of America and the effect of these changes on higher education.

Eastman School of Music

Church Music

Department: Eastman School of Music - Church Music
Course: CHU 201
Title: Church Music Skills
Instructor: Erikson, R. Class Size: 15
Prerequisites: basic organ technique
Description: Skills and techniques for the church musician; includes hymnology, basic and advanced hymn playing, service playing, conducting from the console, anthem accompanying, realizing piano scores (open to organists only).

Department: Eastman School of Music - Church Music
Course: CHU 203
Title: Church Music Skills
Prerequisites: Open to Organists only
Description: Basic improvisation for the church organist: free, chorale-based, modulations and transitions; review of hymn playing techniques

Composition

Department: Eastman School of Music--Composition
Course: CMP 101
Title: First, Second, Third, Fourth Year Major
Description: Weekly private composition lessons with the major faculty.

Department: Eastman School of Music - Composition
Course: CMP 221
Title: Composition for Non-Majors
Description: Private instruction or small-group instruction in the fundamentals of free composition. Students progress at their own speed and are tested as to their compositional skills in order to be placed in one of the four levels of non-majors' courses. All compositions are performed and critiqued completion.

Department: Eastman School of Music - Composition
Course: CMP 225
Title: Introduction to Computer and Electronic Music
Instructor: Schindler Class Size: 12
Prerequisites: Sophomore level music theory or equivalent
Exams: None. Grades are based on two compositional or performance projects each semester.
Description: Principles of real-time digital and analog recording, sound generation, mixing and dubbing, signal processing and modification, and analysis.

Department: Eastman School of Music--Composition
Course: CMP 251
Title: Fundamentals of Orchestration
Instructor: Thomas, A. Class Size: 25
Prerequisites: TH 102/TH 104/TH 108
Description: Instrumentation - learning ranges, transpositions, idiomatic writing for instruments, arranged by family (strings, woodwinds, brass, and percussion). Arrangements and composition for mixed ensembles and included.

Department: Eastman School of Music - Composition
Course: CMP 291
Title: Composition Symposium
Prerequisites: (for non-composition majors): permission of the instructor
Description: Regular meetings of all composition majors to discuss student compositions and general problems of contemporary composition. From time to time, guest composers will appear as clinicians.

Department: Eastman School of Music - Composition
Course: CMP 293
Title: Composition Symposium
Prerequisites: (for non-composition majors): permission of the instructor.
Description: Regular meetings of all composition majors to discuss student compositions and general problems of contemporary composition. From time to time, guest composers will appear as clinicians.

Composition

Department: Eastman School of Music - Composition
Course: CMP 295
Title: Composition Symposium
Prerequisites: (for non-composition majors): permission of the instructor.
Description: Regular meetings of all composition majors to discuss student compositions and general problems of contemporary composition. From time to time, guest composers will appear as clinicians.

Department: Eastman School of Music - Composition
Course: CMP 297
Title: Composition Symposium
Prerequisites: (for non-composition majors): permission of the instructor.
Description: Regular meetings of all composition majors to discuss student compositions and general problems of contemporary composition. From time to time, guest composers will appear as clinicians.

Conducting

Department: Eastman School of Music - Conducting
Course: CND 213
Title: Intermediate Conducting I (Instrumental)
Coursework: An examination of the works of classical composers (Haydn, Mozart, Beethoven, Schubert) in regard to technical approach and interpretation for conductors. Also discussed is the relationship between orchestra player and conductor and the best way to approach problems. Classroom work with piano and conducting live players is equally divided.

Department: Eastman School of Music - Conducting
Course: CND 215
Title: Advanced Conducting I (Instrumental)
Description: For the more advanced student. Studies of Brahms and late Beethoven symphonies as well as overtures and conducting of opera scores and concerti. Studies in how to follow soloists and interpretation of standard romantic works. Classroom work with piano and conducting live players is equally divided.

Department: Eastman School of Music--Conducting
Course: CND 223
Title: Choral Conducting I Class Size: 15-25
Prerequisites: CND 211, CND 212 (or equivalent).
Restrictions: Permission of Instructor
Description: Emphasis on methods and techniques appropriate to rehearsal and performance of choral music, on reading and interpretation of choral scores, and on the development of a professional conducting approach.

English

Department: Eastman School of Music - English
Course: ENG 115
Title: English Diction for Voice Majors
Description: The sounds and phonation of English. Use of the International Phonetic Alphabet. Particular attention to the problems of singing intelligibly in English. Prerequisite: permission of the instructor. Following is a list of periodically available literature courses for which Humanities 102 or permission of the instructor is a prerequisite.

Department: Eastman School of Music - English
Course: ENG 222
Title: Writing About Music
Description: Writing about music for newspaper and periodical publications. Music criticism, record reviews, and feature articles are studied and discussed. Students prepare articles for evaluation and possible publication. Guest instructors present lectures on special topics.

Department: Eastman School of Music - English
Course: ENG 281
Title: Topics in World Literature
Instructor: Baldo
Exams: Midterm and Final exam
Description: Topics vary from year to year. Recent topics focus on authors, periods, genre or themes such as James Joyce, drama, Romantic literature, or musicians in literature. May be repeated for credit.

Ensembles

Department: Eastman School--Ensembles
 Course: ENS 101
 Title: Instrumental Ensemble
 Description: Includes participation in Philharmonia, Wind Ensemble, Musica Nova, Symphony Orchestra, and Wind Orchestra.

Department: Eastman School--Ensembles
 Course: ENS 103
 Title: Instrumental Ensemble
 Instructor: Ensemble Faculty
 Description: Includes participation in wind orchestra and Eastman Orchestra.

Department: Eastman School--Ensembles
 Course: ENS 105
 Title: Instrumental Ensemble
 Instructor: Ensemble Faculty
 Description: Includes participation in Philharmonia, Wind Ensemble, Intermusica

Department: Eastman School--Ensembles
 Course: ENS 107
 Title: Instrumental Ensemble
 Instructor: Ensemble Faculty
 Description: Includes participation in Philharmonia, Wind Ensemble, Intermusica

Department: Eastman School--Ensembles
 Course: ENS 111
 Title: Vocal Ensemble
 Instructor: Ensemble Faculty
 Description: Includes participation in Eastman Chorale.

Department: Eastman School--Ensembles
 Course: ENS 201
 Title: Jazz Laboratory Ensemble
 Description: Includes participation in any of the large jazz ensembles. Instrumentation includes saxophone, trumpet, trombone, tuba, flute, horn, keyboard, guitar, bass, drum set, and percussion.

Department: Eastman School of Music - Ensemble
 Course: ENS 207
 Title: Collegium Musician
 Description: Performance of older music (mainly before 1700) by students, either singing or playing on period instruments. May be repeated for credit.

Department: Eastman School of Music - Ensemble
 Course: ENS 211
 Title: Vocal Chamber Music
 Description: Introduction to basic vocal chamber music skills. Exercises in rhythm, tuning, and style. Repertoire chosen each semester to suit the voice types registered. Solo works with individual instruments or works with various voices, all without conductor, from 14th century to present day.

Department: Eastman School of Music - Ensemble
 Course: ENS 230
 Title: Guitar Chamber Music
 Description: Coaching and performance of chamber music works involving guitar. Instrumentalists and singers who wish to coach and perform repertoire with guitar may register for credit.

Department: Eastman School of Music - Ensemble
 Course: ENS 243
 Title: Tuba Plus
 Description: Preparation and performance of all types of tuba ensemble repertoire, especially works for tuba ensemble plus a small number of other instruments.

Department: Eastman School--Ensembles
 Course: ENS 240
 Title: Chamber Music (Woodwind)
 Instructor: R. Ricker Class Size: 3-5
 Exams: Weekly preparation of ensemble music
 Description: Emphasis on the woodwind quintet.

Ensembles

Department: Eastman School--Ensembles
 Course: ENS 241
 Title: Saxophone Ensemble
 Instructor: R. Ricker
 Restrictions: Permission of Instructor
 Exams: Weekly preparation of ensemble music
 Description: Preparation and performance of all types of saxophone ensemble repertoire, including duets, trios, quartets, etc., chamber music that includes saxophone and larger ensembles, both jazz and non-jazz.

Department: Eastman School--Ensembles
 Course: ENS 242
 Title: Trombone Choir
 Instructor: Marcellus J Class Size: 20-24
 Restrictions: Permission of Instructor
 Description: Preparation and performance of trombone ensemble music of various styles.

Department: Eastman School of Music - Ensemble
 Course: ENS 250
 Title: Chamber Music (Brass)
 Description: Emphasis on the brass quintet. Enrollment limited.

Department: Eastman School--Ensembles
 Course: ENS 260
 Title: Chamber Music (Percussion)
 Instructor: Beck J
 Description: Performance of music for percussion ensemble.

Department: Eastman School of Music - Ensemble
 Course: ENS 270
 Title: Chamber Music for Piano and Strings
 Description: Basic techniques of chamber music performance in repertoire for piano and strings. Prerequisites: PRF 111, 112. May be repeated for a maximum of four hours of credit.

Department: Eastman School of Music - Ensemble
 Course: ENS 277
 Title: Baroque Chamber Music
 Description: Study of Baroque ensemble literature for strings, winds, harpsichord, organ, and voices with an emphasis on performance practices. Public performance may be the result of a semester's work. Enrollment may be limited.

Department: Eastman School of Music - Ensemble
 Course: ENS 280
 Title: Chamber Music Seminar
 Description: Intensive preparation for a public performance at the conclusion of each semester of a coherent group of six string quartets. Enrollment restricted to six performed quartets, the members of which are willing to commit themselves to participation in the seminar throughout an academic year.

Department: Eastman School of Music - Ensemble
 Course: ENS 287
 Title: Interdepartmental Chamber Music
 Description: Performance of chamber music of the seventeenth through twentieth centuries using ensembles of varied instrumentation (strings, winds, keyboard, and voice).

Department: Eastman School of Music - Ensemble
 Course: ENS 290
 Title: Chamber Music
 Description: Playing, reading, and coaching of music for strings, strings and piano, or strings with other instruments at discretion of coordinator of string chamber music. Public performance may be the result of a semester's work. Prerequisites (for pianists): PRF 111, 112. May be repeated for credit.

Fine Arts

Department: Eastman School of Music - Fine Arts
Course: FA 11
Title: History of the Fine Arts
Description: Designed to increase the student's awareness and enjoyment of art through the exploration of its many dimensions. The historical range is from Lascaux cave paintings to the most experimental art of the twentieth century. The environments considered in relation to art's purposes are the religious, the political, the social, the economic, the physical, the psychological, and the aesthetic.

Department: Eastman School of Music - Fine Arts
Course: FA 113
Title: An Introduction to the Visual
Description: Intended to develop sensitivity to and understanding of the visual arts, including painting, sculpture, and architecture, by examining the nature of creativity and the role of the artist.

Department: Eastman School of Music - Fine Arts
Course: FA 224
Title: Ideas and Images in American Architecture
Description: An examination of American architecture from the seventeenth century to the present, considering the building as the visible manifestation of the architectural and philosophical ideas of the architect.

French

Department: Eastman School of Music - French
Course: FR 101
Title: Elementary French
Description: Introduction to the language, development of reading, writing, speaking, and aural skills. Emphasis on basic grammar.

Department: Eastman School of Music - French
Course: FR 111
Title: Intermediate French
Prerequisites: 101-102 or equivalent
Exams: 2 hourly exams, mid-term and final exams
Description: Review of the basic grammar, more intensive composition. Emphasis on building vocabulary, perfecting pronunciation, and aural and oral skills. Class Size: 18

Department: Eastman School of Music - French
Course: FR 115
Title: French Diction
Instructor: Donnan
Prerequisites: Required of voice majors; open to others
Restrictions: Permission of Instructor
Exams: Occasional quizzes. A final exam.
Description: This first semester of French lyric diction aims at developing clarity, accuracy, and fluidity in delivering a text. This semester concentrates on the rules for the pronunciation of vowels and on the fine tuning of vowel production. Students sing songs and critique. Class Size: 20

German

Department: Eastman School of Music - German
Course: GER 101
Title: Elementary German I
Description: Introduction to the language emphasizing proficiency in all four linguistic skills (reading, writing, speaking, and comprehension.)

Department: Eastman School of Music - German
Course: GER 111
Title: Intermediate German
Instructor: Roetzel L
Prerequisites: German 102 or equivalent
Exams: three chapter test, one final
Description: Training in the structure of modern German on an intermediate level through reading of selected representative works of nineteenth and twentieth-century authors (with emphasis on modern authors) and readings which deal with various aspects of German culture. Class Size: 20

German

Department: Eastman School of Music - German
Course: GER 115
Title: Diction
Description: Particular attention given to problems regarding lyric diction.

Guitar

Department: Eastman School of Music - Guitar
Course: GTR 201
Title: History and Literature of Guitar
Description: A course which examines the literature of guitar-related instruments of the Renaissance and Baroque periods, including the vihuela, four-course guitar, Baroque guitar, Baroque lute, and theorbo. Notation conventions (with an emphasis on Renaissance and Baroque tablature and figured-bass realization) are studied, as well as documented performance practices. Students also acquire techniques for researching original sources.

Department: Eastman School of Music - Guitar
Course: GTR 220
Title: Fretboard Harmony
Description: A course designed to develop a full knowledge of the fretboard through the study of fingerings, harmony, sight reading, score reading, transposition, and figured-bass.

History

Department: Eastman School of Music - History
Course: HIS 210
Title: Utopia and Dystopia
Description: This course considers the history of real and imagined utopian communities from medieval monasteries through contemporary science fiction. Sometimes utopian communities succeed, providing interesting case studies in the effects of social planning. Even when they don't succeed, their design and discussion represents an important form of social criticism. Studying their history provides a window into the political, economic, and social development of Europe and the United States from the Middle Ages and the Renaissance to the present day.

Department: Eastman School of Music - History
Course: HIS 281
Title: Topics in History
Description: Topics vary from year to year. Recent topics have included culture and politics in twentieth-century Europe, comparative revolutions, history of women's movements, issues in feminist theory and utopian communities. May be repeated for credit.

Humanities

Department: Eastman School of Music - Humanities
Course: HUM 101
Title: Western Cultural Tradition
Description: Combines the reading and analysis of important works in Western Literature, philosophy, politics, science and religion and training in expository writing. Every section will read a number of "great books." The first semester covers works up to approximately 1600; the second semester works from the seventeenth century to the present. Each instructor organizes the course to focus on different writers, to emphasize different themes, to stress different disciplinary methods of analysis. (See departmental course descriptions for detailed descriptions of each section.) All students are required to take 101 and 102, preferably in the first year.

Department: Eastman School of Music - Humanities
Course: HUM 111
Title: Foundations of Twentieth-Century Culture
Description: Introduction to the main themes in contemporary culture with emphasis on the sources of novelty and experiment and on the quest for a new tradition. Prerequisite: ENG 101_102 or equivalent.

Italian

Department: Eastman School of Music - Italian
Course: IT 101
Title: Elementary Italian
Description: To receive credit, IT 102 must be completed satisfactorily.

Jazz Studies & Contemporary Music

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 221
Title: New Concepts in Linear Improvisation
Prerequisites: TH 101, TH 102 or TH 103, TH 104 and one year of improvisation.
Description: A specialized course stressing the application of theoretical knowledge to one's instrument. Complex and exotic scales, modes, chords, and patterns as well as simpler melodic devices are covered, with emphasis on the performance of these devices. It is suggested that JCM 213, JCM 214 or JCM 215, JCM 216 be taken concurrently.

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 231
Title: Intermediate Arranging Techniques
Prerequisites: JCM 227, JCM 228 or permission of the instructor.
Description: Practical arranging in jazz and rock idioms for dance band, combos, and special ensembles. Idiomatic uses of harmony, melodic figures, voicing, tonal colors, modulations, and notational conventions are developed. Writing for strings, woodwinds, and harp is introduced. Electronic instruments and their use in orchestral settings are studied.

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 241
Title: New Concepts in Jazz Theory
Prerequisites: TH 101, 102, 111, and ENS 201 or permission of the instructor.
Description: Evolution of compositional and improvisational styles in jazz from 1900 to the present. Stylistic periods of emphasis include New Orleans, swing, bebop, west coast, hard bop, post bop, and avant-garde. Evolution of specific instruments (saxophone, trumpet, piano, etc.) is also emphasized.

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 233
Title: Film Scoring Techniques
Prerequisites: CMP 252 with permission of the instructor or JCM 231, JCM 232.
Description: Both artistic and technical/ mathematical aspects are developed with practical short film assignments as well as lectures. Equipment used by this class includes the Movieola film editor, interlocked 16mm projector and dubbers, click track generator (digital metronome), Mini-Moog Model D synthesizer, and Echoplex. Scores will be performed and recorded. May be repeated for additional credit.

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 247
Title: Contemporary Techniques in Jazz Composition
Prerequisites: JCM 216, 228.
Description: Detailed analysis of major contemporary jazz works; discussions of innovations by jazz composers including Duke Ellington, Thelonious Monk, Gil Evans, Wayne Shorter, Josef Zawinul, Bob Brookmeyer, Kenny Wheeler, and others; development of one's individual voice as a jazz composer.

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 263
Title: Performance Practice
Description: Preparation of repertoire for the senior recital program, including repertoire selection, transcription from recordings of selections not available in published form, arranging as needed, and discussion of performance and improvisation practices.

Department: Eastman School of Music - Jazz Studies & Contemp. Music
Course: JCM 270
Title: Recording Techniques and Audio Listening Skills
Description: An introduction to various facets of modern sound recording with emphasis on training the students' ability to discern techniques and problems by listening to recorded examples. Enrollment limited. Open to music majors only.

Methods

Department: Eastman School of Music - Methods
Course: MHD 210
Title: Harp Pedagogy
Description: Fundamentals of harp technique, including the exploration of methods and repertoire for teaching harpists of all ages. (Required for undergraduate harp students in the junior year but open to other harp students.)

Department: Eastman School of Music - Methods
Course: MHD 233
Title: Suzuki Violin Pedagogy I
Description: Intensive study of the concepts, philosophy and approach of the Suzuki method. Thorough study of Books 1 and 2 of the Suzuki Violin School. Exploration of techniques of working with parent and child at beginning and intermediate levels through observation of Community Education Division Suzuki program.

Department: Eastman School of Music - Methods
Course: MHD 251
Title: Piano Pedagogy
Description: Survey of leading beginning piano methods; examination of intermediate level piano literature. Each student also is assigned a young beginner and will teach 22 lessons (continuing in MHD 252).

Department: Eastman School of Music - Methods
Course: MHD 281
Title: Voice. Pedagogy of Solo Voice.
Description: Fundamentals of voice production: posture, breath control, tone, diction. Class participants will work directly with their own students.

Music History

Department: Eastman School of Music - Music History
Course: MHS 119
Title: Historical Review
Description: A tutorial course for graduate students who, upon entrance into the graduate program, are found deficient in history of music.

Department: Eastman School of Music - Music History
Course: MHS 211
Title: Piano Literature
Description: Study and analysis of keyboard music from the pre-piano period to the present. Special attention given to the development of keyboard forms, techniques, and idiomatic styles. Primarily for majors in piano, composition, or the history of music.

Department: Eastman School of Music - Music History
Course: MHS 281
Title: Special Topics
Description: Intensive study of literature within limited topic areas. Emphasis upon analysis and comparative studies, with critical writing by the student. May be repeated for credit. Recent topics have included the symphonies of Beethoven; the chamber music of Brahms; Bartok; opera: Monteverdi to Mozart; history and analysis of jazz; world music (two semesters); developments in rock music since 1964.

Music Education

Department: Eastman School of Music - Music Education
Course: MUE 142
Title: Voice Class II
Description: Extension of Voice Class I, with opportunity to continue to develop individual skills in singing.

Department: Eastman School of Music - Music Education
Course: MUE 216
Title: Teaching Special Learners
Description: Trends in music education for exceptional children identified by Public Law 94-142. Through class sessions, readings, and school visits, enrollees will learn to identify the characteristics of special learners and to observe how these affect musical behaviors. Projects and assignments in class will develop strategies for both (a) modifying existing music materials, and (b) designing original music materials appropriate to these learners.

Music Education

Department: Eastman School of Music - Music Education
Course: MUE 221
Title: Teaching Private & Small Groups
Description: For students in any major who are interested in learning to teach private and small group lessons. Enrollees will be assigned to teach for up to two hours each week at a K-12 school. Lessons will be observed periodically and enrollees will meet with a faculty member to discuss matters related to the teaching assignment.

Opera

Department: Eastman School of Music - Opera
Course: OP 209
Title: Basic Acting I.
Description: Introduces students to basic principles of relaxation, concentration, sensory awareness, and personalization and substitution in dramatic structures. The course is a workshop and group oriented. Elements of the Stanislavski system, especially those centering on use of objectives and structure, are emphasized. The work involves use of minimal dramatic structures.

Department: Eastman School of Music - Opera
Course: OP 211
Title: Workshop
Description: Study and practice of basic operatic musicianship, stressing enunciation and inflection and their bearing on rhythm and projection. Development of characterization by building motivation through study of background source material. Private ensemble coaching, both musical and dramatic.

Department: Eastman School--Opera
Course: OP 213
Title: Opera Workshop
Instructor: R. Pearlman Class Size: 35-40
Restrictions: Permission of Instructor
Description: Continuation of Opera Workshop 212

Department: Eastman School--Opera
Course: OP 215
Title: Opera Workshop
Restrictions: Permission of Instructor
Description: Emphasis on accumulation of repertoire. Study may be in a foreign language if proficiency has been established in this language.

Department: Eastman School--Opera
Course: OP 217
Title: Opera Workshop Class Size: 35-40
Restrictions: Permission of Instructor
Description: The course consists of a series of units throughout the year in which five or six weeks are spent in intensive work on a particular skill with either a regular faculty member or a guest instructor expert in that field. Some topics covered are: basic acting skills, audition technique, performance practice in various operatic styles, musical comedy techniques, stage movement, mime and dance. The work involves a number of hours per week of musical coaching in time.

Piano Class

Department: Eastman School of Music - Piano Class
Course: PCL 101
Title: Piano Class
Description: One-hour laboratory and one-hour studio class each week. For students who have had little or no keyboard study. Introduction to the fundamentals of technique, fingering, articulation and pedal. White key tonic major and minor scales, major and minor triads in all inversions with basic keyboard patterns. Elementary chord progressions and the beginning of melody harmonization. Introduction to sight-reading through abstract drills, melodies and melodies with simple single note accompaniments. Piano for Adults (Clark).

Piano Class

Department: Eastman School of Music - Piano Class
Course: PCL 102
Title: Piano Class
Description: One-hour laboratory and one-hour studio class each week. Continuation of introductory course. Completion of major scales, addition of diminished-seventh arpeggios. Harmonization of melodies using I, IV, V chords in block form. Transposition of melodies with block accompaniment. Elementary solos, duets. Sight-reading of melodies with simple accompaniments. Piano for Adults (Clark).

Department: Eastman School of Music - Piano Class
Course: PCL 103
Title: Piano Class
Description: Two hours per week. Repertory: elementary solos and duets. Technique: completion of all scales, beginning of triad arpeggios in root position. Chord progressions: addition of II and VI chords. Harmonization and transposition of melodies using simple textures in accompaniments. Sight-reading: analysis of keyboard figures, solos with simple accompaniments, two-part counterpoint, duets. Piano for Adults, Vol. 2 (Clark).

Department: Eastman School of Music - Piano Class
Course: PCL 104
Title: Piano Class
Description: Two hours per week. Repertory: late elementary solos and duets, introduction of accompaniments for the student's major instrument. Technique: completion of triad arpeggios. Chord progressions using secondary dominants. Harmonization and transposition of melodies using simple accompaniment patterns in left hand or four-part textures. Continuation of analysis of keyboard figures and sight-reading of melodies with simple accompaniments. Introduction of four-part harmonic reading. Piano for Adults, Vol. 2 (Clark).

Department: Eastman School of Music - Piano Class
Course: PCL 105
Title: Piano Class
Description: Half-hour private lesson per week plus one laboratory class. Lesson includes technique, repertory, and accompaniments. Review of all major and minor scales, diminished-seventh arpeggios and major and minor triad arpeggios. One-half hour laboratory class for sight-reading: expanded keyboard textures and four-part harmony. Music education, composition and theory majors have an additional one-half hour laboratory class for harmonization and transposition of melodies using altered chords and expanded accompaniment patterns. Three-part score-reading is introduced. Piano for Adults, Vol. 2 (Clark).

Department: Eastman School of Music - Piano Class
Course: PCL 106
Title: Piano Class
Description: Continuation of private lesson and laboratory sections of Piano Class 103. Addition of modulation in harmonization and transposition. Four-part score-reading. All students must present an accompaniment played with soloist for the final examination. Departmental keyboard examinations may also be required of some students. Piano for Adults, Vol. 2 (Clark).

Philosophy

Department: Eastman School of Music - Philosophy
Course: PHL 241
Title: Aesthetics
Description: Philosophical problems concerned with the nature of art and the criteria of artistic judgment.

Performance

Department: Eastman School of Music - Performance
Course: PRF 111
Title: Piano Sight-Reading.
Description: Skills necessary for fluent sight reading of a wide variety of literature and to read open score (choral and instrumental), alto clef, and to transpose instrumental lines and song accompaniments.

Performance

Department: Eastman School of Music - Performance
Course: PRF 201
Title: Accompanying
Prerequisites: PRF 111 and 112.
Description: A course designed to introduce the undergraduate piano major to the basics of ensemble with one other instrument. Standard string and wind repertoire will be assigned, and the course will culminate in a class recital.

Department: Eastman School of Music - Performance
Course: PRF 223
Title: Choral Literature
Description: A comprehensive survey of choral materials suitable for church, secondary education, and college programs through reading performance.

Department: Eastman School of Music - Performance
Course: PRF 231
Title: Voice Repertoire
Description: At the discretion of the applied teacher and the advisor, qualified students may begin PRF 231 in the sophomore year. Designed for applied majors in voice. Open to other majors by permission. PRF 234 may be repeated for additional credit.

Department: Eastman School of Music - Performance
Course: PRF 233
Title: Voice Repertoire Sr I
Description: At the discretion of the applied teacher and the advisor, qualified students may begin PRF 231 in the sophomore year. Designed for applied majors in voice. Open to other majors by permission. PRF 234 may be repeated for additional credit.

Department: Eastman School of Music - Performance
Course: PRF 251
Title: Orchestral Repertoire
Description: An in-depth survey of the standard repertoire, particularly directed at preparing students for orchestral auditions and careers. May be repeated once for credit provided different repertoire is covered.

Department: Eastman School of Music - Performance
Course: PRF 261
Title: Jazz Piano Improvisation for Keyboard Majors
Description: For advanced keyboard players with no experience in jazz piano improvisation. Topics include solo jazz harmonization, jazz, and nonjazz improvisation; open to ESM majors only.

Theory

Department: Eastman School of Music - Theory
Course: TH 070
Title: Basic Keyboard Skills.
Description: A non-credit course for students with limited or no keyboard experience. The course is designed first to develop basic keyboard familiarity and then to prepare the student to fulfill the keyboard audit requirement for TH 101, 102. Exercises include playing of scales, diatonic progressions and sequences, melody harmonization, transposition, figured bass realization, and reading of clefs. Those placed in this course by examination must satisfy this requirement before enrolling in TH 111, 112.

Department: Eastman School of Music - Theory
Course: TH 101
Title: First Year Theory I
Description: An introduction to the fundamentals of tonal music of the Common Practice period, including diatonic and applied dominant harmony, partwriting, tonicization, ornamental tones and chords, seventh chords, and modulations to closely related keys. The beginning study of two-voice counterpoint, and motivic and formal analysis, including small part forms, Minuet and Trio, and Rondo. Ear training and supporting exercises in keyboard skills are included.

Theory

Department: Eastman School of Music - Theory
Course: TH 103
Title: First Year Theory I (Accel)
Description: An accelerated and enriched two-year program (covering the regular three-year theory sequence and satisfying the theory requirement for the Bachelor of Music program) designed for students with advanced aural skills and theory background. Admission to course dependent on results of theory entrance examinations and interviews. This course covers all aspects of theory in greater detail, including linear analysis, complex forms, composition, and examination of a large repertoire of pieces, as well as advanced ear training and keyboard skills.

Department: Eastman School of Music - Theory
Course: TH 107
Title: First Year Theory I (intensive)
Description: An intensive course in music theory, meeting five days/week, for those who do not demonstrate sufficient grasp of music fundamentals (intervals, chords, scales, keys and key signatures) on the placement examination. In addition to fundamentals, this special course covers the contents of the regular first-year course (Theory 101, 102).

Department: Eastman School of Music - Theory
Course: TH 111
Title: Second Year Theory.
Description: A continuation of harmonic practice to include chromatic harmonies and modulation to chromatically-related and non-diatonic keys. An extensive study of form includes sonata and variation forms, and analysis of the concerto, Lied, and characteristic nineteenth-century piano music genres. A unit on eighteenth-century counterpoint includes examination of contrapuntal techniques in the invention and fugue and in model composition exercises. Ear training and supporting exercises in keyboard skills are continued throughout.

Department: Eastman School of Music - Theory
Course: TH 116
Title: Review Analysis & Writing Skill
Description: An accelerated course in undergraduate harmony, counterpoint, and form for graduate students who are found to be deficient on the entrance theory examination.

Department: Eastman School of Music - Theory
Course: TH 121
Title: Third Year Theory I
Description: Analytical and ear-training studies in twentieth-century music. The first semester deals with selected pieces by Debussy, Scriabin, Prokofiev, Bartok, Hindemith, and Stravinsky, as well as theory relevant to this repertoire. The second semester explores the theory of atonal and twelve-tone music by Schoenberg, Berg, and Webern, as well as more recent compositional developments.

Department: Eastman School of Music - Theory
Course: TH 131
Title: Aural Skills I
Description: A graduated sequence of sight singing and aural skills training, including the development of inner hearing, musical memory, polyphonic performance, fluency in C-clefs, and aural perception of harmonic function and formal design. Emphasis is placed upon individual student performance in solo and ensemble singing on scale-degree numbers and rhythmic syllables while conducting meter. Repertoire for study begins with basic diatonic melodies, harmonies, and simple rhythms (131, 132), progressing through chromatic elements, distant modulations, and complex rhythms (141, 142), leading eventually to music outside of conventional tonal practice (151, 152). This sequence must be taken in conjunction with the written theory sequence: TH 131, 132 with TH 101, 102; TH 141, 142 with TH 111, 112; and TH 151, 152 with TH 121, 122. Advanced placement by examination.

Theory

Department: Eastman School of Music - Theory
Course: TH 141
Title: Aural Skills III
Description: A graduated sequence of sight singing and aural skills training, including the development of inner hearing, musical memory, polyphonic performance, fluency in C-clefs, and aural perception of harmonic function and formal design. Emphasis is placed upon individual student performance in solo and ensemble singing on scale-degree numbers and rhythmic syllables while conducting meter. Repertoire for study begins with basic diatonic melodies, harmonies, and simple rhythms (131, 132), progressing through chromatic elements, distant modulations, and complex rhythms (141, 142), leading eventually to music outside of conventional tonal practice (151, 152). This sequence must be taken in conjunction with the written theory sequence: TH 131, 132 with TH 101, 102; TH 141, 142 with TH 111, 112; and TH 151, 152 with TH 121, 122. Advanced placement by examination.

Department: Eastman School of Music - Theory
Course: TH 151
Title: Aural Skills V
Description: A graduated sequence of sight singing and aural skills training, including the development of inner hearing, musical memory, polyphonic performance, fluency in C-clefs, and aural perception of harmonic function and formal design. Emphasis is placed upon individual student performance in solo and ensemble singing on scale-degree numbers and rhythmic syllables while conducting meter. Repertoire for study begins with basic diatonic melodies, harmonies, and simple rhythms (131, 132), progressing through chromatic elements, distant modulations, and complex rhythms (141, 142), leading eventually to music outside of conventional tonal practice (151, 152). This sequence must be taken in conjunction with the written theory sequence: TH 131, 132 with TH 101, 102; TH 141, 142 with TH 111, 112; and TH 151, 152 with TH 121, 122. Advanced placement by examination.

Department: Eastman School of Music - Theory
Course: TH 212
Title: Acoustics.
Prerequisites: TH 112 or 114.
Description: An introductory course in the physical properties of sound, including vibrating systems, wave propagation, room acoustics, tuning and temperament, the psychology of hearing, the physics of musical instruments and the voice, electronic synthesis, recording, and high-fidelity equipment.

Department: Eastman School of Music - Theory
Course: TH 241
Title: Computer Applications in Music Research I.
Restrictions: Permission of Instructor
Description: An introduction to computer programming for music research. Intensive work in Pascal programming, with emphasis on algorithm development and structured programming techniques. Introduction to coding and manipulation of musical data, data structures, and survey of computer-music literature.

Department: Eastman School of Music - Theory
Course: TH 251
Title: Counterpoint I
Description: A course in modal counterpoint, focusing on the study of two-, three- and four-part compositional techniques. Writing is primarily in the sacred styles, but some work in secular styles may be undertaken. Analysis of masterpieces of the sixteenth-century repertoire provides context for compositional study.

School of Medicine & Dentistry

Microbiology

Department: Microbiology
Course: MBI 220
Title: Introduction to Microbiology
Instructor: Maniloff, J **Class Size:** 55-65
Prerequisites: BIO 110 and 111, BIO 121, and BIO 150
Exams: 2 exams and Final exam
Description: This course provides an introduction to bacteria and viruses. Major topics discussed are: bacterial and viral structure; microbial biochemistry, molecular biology, growth, and evolution; host-parasite interactions including nonspecific and specific (immune) host defenses and mechanisms of microbial pathogenesis; microbial diseases of humans; and microbial diversity and ecology. Three lectures per week with assigned readings from text.

Department: Microbiology
Course: MBI 221
Title: Microbiology Laboratory
Cross-listed: MBI 221W
Instructor: Courtney, M.A. **Class Size:** 24
Prerequisites: MBI 220 concurrent or previous
Exams: 3 exams
Description: This course is designed to accompany MBI 220. It allows the students to have direct experience in handling microorganisms and studying their properties. Emphasis is placed on learning basic laboratory skills and techniques; collecting and recording data; and analyzing experimental results. Some exercises are carried by individual students, while others are carried out in small groups. A field trip will be scheduled, if possible. A laboratory notebook constitutes part of the grade. A short paper and a presentation of that paper is also required.

Department: Microbiology
Course: MBI 391
Title: Undergraduate Readings in Microbiology
Restrictions: Permission of Instructor
Description: This course is designed to give undergraduates an opportunity to explore some microbiological topic on a tutorial basis. The student must first choose a faculty member willing to serve as a tutor. Then, a plan is formulated and approved. The student will then read various articles in the microbiological literature and meet at regular times with the instructor to discuss the reading. The instructor may require that the student prepare a term paper on the subject.

Department: Microbiology
Course: MBI 395
Title: Undergraduate Research in Microbiology
Restrictions: Permission of Instructor
Description: This course is designed to give undergraduates an opportunity to obtain experience in research in the laboratories of the faculty of the Department of Microbiology and Immunology. The student must first choose a faculty member who wishes to have a student working on a project under his or her direction. A list of the potential instructors can be obtained from the office of the Department of Microbiology and Immunology or from the Department of Undergraduate Advisor. Then, after student and teacher have come to an agreement, a written description of the project to be carried out is prepared and submitted for approval. The projects include laboratory experience and tutorial sessions with the teacher.

Department: Microbiology
Course: MBI 473
Title: Immunology
Instructor: Zauderer, M., Barth, R., Phipps, R. **Class Size:** 100
Prerequisites: BIO 121, BIO 150 or equivalent.
Exams: two
Description: Cellular and humoral immune responses; interaction of antibody and antigen; structure and genetics of immunoglobulin; T and B lymphocyte interaction; immune regulation. Biology 202 (Introduction to Molecular Biology) strongly recommended.

Microbiology

Department: Microbiology
Course: MBI 483
Title: Seminar in Neural-Immune Interactions
Cross-listed: NSC 483
Instructor: Moynihan, J. **Class Size:** 20
Description: This is a seminar devoted to topics in neural-immune interaction. Weekly seminars, presented by graduate students and faculty, cover a range of topics, including: hormones as immunoregulators; cytokines as regulators of the nervous system; the peripheral nervous system and immune responses; stress-induced immunomodulation in animals and humans; the role of the nervous system in autoimmune disease and in the aging immune system; and behaviorally conditioned immunomodulation.

School of Nursing

Department: Nursing
Course: NUR 201
Title: Chemistry for the Health Sciences. Credit - 4 hours
Restrictions: Permission of department required
Description: This is a comprehensive lecture and laboratory course intended for non-chemistry majors, particularly those desiring careers in nursing and allied health-care fields. The basic tenets of general, organic and biological chemistry are covered from a practical viewpoint, with emphasis on chemical reactions and concepts related to physiologic processes and other phenomena of everyday interest. (This course has a lab component and corresponding fee.)

Department: Nursing
Course: NUR 210
Title: Nutrition in Health and Illness
Prerequisites: NUR 201, 202
Restrictions: Permission of department required, except for students in offering school
Description: This course focuses on nutrition in health and illness in the context of family, society and culture. Course content includes study of normal nutritional requirements as well as therapeutic nutrition in selected disease processes. Biochemistry provides the foundation of understanding the science of nutrition. Research on the relationship between nutrition and health and illness is discussed, with an emphasis on the prevention of nutrition-related diseases.

Department: Nursing
Course: NUR 212
Title: Anatomy & Physiology I
Prerequisites: NUR 201
Restrictions: Permission of department required, except for students in offering school
Description: A two-semester, sequenced offering which provides a broad examination of human anatomy and physiology. Intended as a basis for further study in the basic sciences or health care fields; appropriate for students with a variety of interests. (This course has a lab component and corresponding fee.)

Department: Nursing
Course: NUR 218
Title: Pathophysiology
Prerequisites: NUR 201, 209, 210, 212, 213 or with written permission of instructor.
Restrictions: Permission of department required, except for students in offering school
Description: This course focuses on the physiologic changes that occur as a result of disease processes and the clinical manifestations indicative of altered health. It integrates anatomy, chemistry, microbiology, and physiology; and focuses on their application to clinical practice.

School of Nursing

Department: Nursing
Course: NUR 280
Title: Perioperative Nursing
Restrictions: Open only to matriculated seniors
Description: This course will focus on the development of knowledge and skills necessary for the application of the nursing process in the care of patients in the Operating Room. The course will build upon previous course work and will emphasize the integration of intraoperative nursing care with pre and postoperative care. Selected topics will be presented in a seminar format and students will have the opportunity to apply concepts in the clinical setting.

Department: Nursing
Course: NUR 290
Title: Therapeutic Use of Self in Nursing
Prerequisites: professional CPR certification
Restrictions: Permission of department required, except for students in offering school
Description: This course uses theories of human behavior, communication, and nursing to provide the student with a foundation for delivering interpersonally-based therapeutic nursing care to individuals, families, and groups from diverse populations. Sound and effective interpersonal skills are identified as fundamental to effective nursing practice. The use of self is identified as a primary therapeutic tool at all phases of the nursing process. The student's self-awareness is enhanced by exploring personal values, attitudes and beliefs. Essential interpersonal, communication, and health teaching skills are identified and practiced in laboratory and clinical settings with individuals, families, and groups. Nursing care in a cross-cultural context is emphasized throughout the course. Interpersonal skills are directly applied to the nursing care of clients with unique needs, including individuals and families coping with hospitalization, chronic and terminal illness. Research related to interpersonally-based therapeutic nursing care is explored, evaluated and applied when appropriate.

Department: Nursing
Course: NUR 292A
Title: Nursing 2002A: Care of Individuals, Families, and Communities (Theory).
Prerequisites: NUR 291A, NUR 291B
Restrictions: Permission of department required, except for students in offering school
Description: NUR 292 consists of 2 sections: In nursing 2002A, a didactic nursing course, the student builds on previously learned content in the acquisition and integration of essential nursing content. The student learns to utilize the nursing process to design care for consumers experiencing complex health problems including individuals, families, and communities in diverse settings, and as the consumer moves across care settings. The student also learns about nursing role development as a collaborative interdisciplinary team member. (This course has a lab component and corresponding fee.)

Department: School of Nursing
Course: NUR 292B
Title: Nursing 2002B: Care of Individuals, Families, and Communities (Clinical).
Prerequisites: NUR 291A&B
Description: Nursing 2002B is a clinical nursing course. The student has the opportunity to synthesize the concepts learned in 2002A and to practice care in varied settings with diverse consumer populations experiencing alterations in health and and wellness. The student also practices professional role behaviors as a collaborative interdisciplinary team member.

Department: Nursing
Course: NUR 301
Title: Nursing Research
Prerequisites: statistics
Restrictions: Permission of department required, except for students in offering school
Description: This course provides an introduction to methods in nursing research. Students acquire a familiarity with the process of scientific inquiry and the application of quantitative and qualitative research to the development of nursing knowledge. Contributions of research to the practice of nursing are introduced.

School of Nursing

Department: Nursing
Course: NUR 307
Title: Epidemiology of Health and Illness
Restrictions: Permission of department required, except for students in offering school
Description: This course examines the causes and distribution of contemporary major health problems and disease in human populations. It will emphasize the application of health promotion and risk reduction strategies to clinical nursing practice with individuals and families throughout the life-span and in a variety of institutional and community based settings. Basic public health principles and tools, epidemiologic models, and health behavior application in concurrent and subsequent clinical nursing courses. Students will use selected measures of health and disease to examine contemporary health problems and trends and will examine national health promotion and disease prevention values, challenges, and priorities. The role of the nurse in promoting health and preventing disease with individuals, families, and communities is examined.

Department: Nursing
Course: NUR 360
Title: Concepts and Processes of Professional Nursing
Restrictions: Permission of department required, except for students in offering school
Description: This course provides a bridge for the RN student from the experience of the basic program to baccalaureate education. Concepts, theories, and philosophies integral to nursing practice are examined. Other topics include motivation for pursuing advanced nursing education, transition to the student role, nursing as an art and science, selected frameworks for nursing practice, and professional role development. The course facilitates the development of academic skills such as professional writing, scholarly presentations, and study skills.

Department: Nursing
Course: NUR 362
Title: Comprehensive Nursing Assessment of the Individual. Credit - 4 hours.
Prerequisites: NUR 212, NUR 213 **Class Size:** 30
Restrictions: Permission of department required, except for students in offering school Juniors Only
Description: This course builds on previous courses in the biopsychosocial sciences and focuses on techniques of history taking and physical assessment. Using Gordan's functional approach to health assessment, focused on comprehensive examinations of essentially well clients throughout the lifespan are addressed. Students will describe findings and differentiate normal from atypical or abnormal. Diagnostic reasoning skills are developed through analysis of the assessment data. A guided-mastery module provides opportunities for generic students to integrate assessment and problem-solving skills with fundamental nursing care procedure. (This course has a lab component and corresponding fee.)

Department: Nursing
Course: NUR 365
Title: Clinical Nursing Leadership and Management **Class Size:** 85
Prerequisites: NUR 292 A&B (For non-RN students)
Restrictions: Open only to matriculated students
Description: Fundamental principles of complex organizations, leadership, and management pertinent to the delivery of nursing care are analyzed. Direct application of content is achieved through clinical experiences across health care settings.

School of Nursing

Department: Nursing
Course: NUR 416
Title: Religious and Spiritual Issues in Health Care
Restrictions: Permission of department required, except for students in offering school
Description: This course is offered for nurses and health care providers in different disciplines, and is designed to explore religious and spiritual responses to health and human suffering. Conducted as a seminar, we examine historical, cultural and social influences on religious and spiritual attitudes, beliefs, and behaviors related to health, illness and healing. The emphasis is on sharpening skills in articulating observations, awareness, and assumptions about health and illness of persons in light of their different faith experiences. Various approaches of different disciplines are reviewed for use in making sensitive and ethical assessments of, and interventions for, the religious and spiritual needs of patients.

Department: Nursing
Course: NUR 435
Title: Seminar in Child & Adolescent Development
Prerequisites: Undergraduate course in human development
Restrictions: Permission of department required, except for students in offering school
Description: The study of human development is a complex challenge. This is an advanced level course for those who wish or need to know about children. A conceptual framework for development will be presented with an overview of the major theories of child development. The goal of this course will be to describe the development of the child from birth through adolescence and the issues that affect this development. Established theories in child development, classic studies, and current research will be discussed to provide the basis for developmental assessments and interventions which can be done by health care providers.

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