<table>
<thead>
<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 106</td>
</tr>
<tr>
<td>Title:</td>
<td>Colonial and Contemporary Africa</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>HIS 106/ANT 248</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Mandala, E.</td>
</tr>
<tr>
<td>Exams:</td>
<td>Midterm and final</td>
</tr>
<tr>
<td>Coursework:</td>
<td>One 10-15 page paper</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see HIS 106 for the course description.</td>
</tr>
</tbody>
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<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 122</td>
</tr>
<tr>
<td>Title:</td>
<td>History of Jazz</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>MUR 122</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Burgett, P</td>
</tr>
<tr>
<td>Class Size:</td>
<td>80</td>
</tr>
<tr>
<td>Coursework:</td>
<td>three exams, one paper</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see MUR 122 for the course description.</td>
</tr>
</tbody>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 141</td>
</tr>
<tr>
<td>Title:</td>
<td>African-American History I</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>HIS 165</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Hudson, L.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>25</td>
</tr>
<tr>
<td>Exams:</td>
<td>2 papers, pop quizzes, term paper, final exam</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Two class papers of 2-3 pages (30%); Mid-Term (10%); term paper 6-8 pages (40%); and Take Home Final Exam (20%).</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see HIS 165 for the course description.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course:</td>
<td>AAS 156</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to African American Literature</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ENG 116</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Tucker, J.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>25</td>
</tr>
<tr>
<td>Description:</td>
<td>Applicable English Cluster: American and African-American Studies. This course provides an introduction to the history of African American literary expression, focusing primarily upon the development of black autobiography, poetry, and fiction. Students will trace a number of important themes such as the quest for freedom and literacy, the influence of folk traditions, double consciousness, the process of Northern migration, and the role of the trickster in classic African American texts. In our study of this important American literary tradition, we will also pay close attention to the intellectual debates concerning audience, language, and the purpose of art that have shaped key texts and historical time periods. We will explore how African American writers used artistic expression as a key modes of political protest, creative affirmation of self, cultural validation, and social reform. Lectures will provide social and cultural background to the literary works discussed in class.</td>
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<tr>
<th>Department:</th>
<th>African &amp; African American Studies</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>AAS 185</td>
</tr>
<tr>
<td>Title:</td>
<td>African American Religious History</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>REL 157</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Butler, A.</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see REL 157 for the course description.</td>
</tr>
</tbody>
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<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 221</td>
</tr>
<tr>
<td>Title:</td>
<td>Birth and Death I: Vital Events in Our Personal Lives</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ANT 218/ANT 217/WST 217/PM 407/WST 217</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Carter, A</td>
</tr>
<tr>
<td>Class Size:</td>
<td>40</td>
</tr>
<tr>
<td>Exams:</td>
<td>One 75 minute exam, one 3 hour cumulative final exam, and a research paper/project</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Please see ANT 218 for the course description.</td>
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<tr>
<th>Department:</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>AAS 246</td>
</tr>
<tr>
<td>Title:</td>
<td>Cry Freedom: Liberation Theologies of Africa and the Americas</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>REL 234</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Cadorette, C.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>10</td>
</tr>
<tr>
<td>Exams:</td>
<td>There will be a mid-term and final examination</td>
</tr>
<tr>
<td>Coursework:</td>
<td>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.</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see REL 234 for the course description.</td>
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<thead>
<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>AAS 248</td>
</tr>
<tr>
<td>Title:</td>
<td>Marriage, Families and Communities in a Global Perspective</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ANT 244/ANT 444</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Emmett, A.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>25</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see ANT 244 for the course description.</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 250</td>
</tr>
<tr>
<td>Title:</td>
<td>Race in American Fiction</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ENG 250, ENG 450, WST 233</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Li, Stephanie</td>
</tr>
<tr>
<td>Department:</td>
<td>African &amp; African-American Studies</td>
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<td>------------</td>
<td>----------------------------------</td>
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<tr>
<td>Course:</td>
<td>AAS 252</td>
</tr>
<tr>
<td>Title:</td>
<td>Economies &amp; Society of Latin America &amp; the Caribbean Since 1492</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>HIS 203/ECO 252</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Inikori, J.</td>
</tr>
<tr>
<td>Exams:</td>
<td>Midterm, Final</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see HIS 203 for the course description.</td>
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<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course:</td>
<td>AAS 253</td>
</tr>
<tr>
<td>Title:</td>
<td>Economic and Social Conditions of African-Americans in the 20th Century</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ECO 253/ECO 253W/HIS 255</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Engerman, S., Wolkoff, M.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>ECO 207</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see ECO 253W for the course description.</td>
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<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 254</td>
</tr>
<tr>
<td>Title:</td>
<td>West African Dance Forms I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Martino, K.</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see DAN 181 for the course description.</td>
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<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 257</td>
</tr>
<tr>
<td>Title:</td>
<td>Lincoln and Douglass and Black Freedom</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Hudson, Larry</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see HIS 247W for the course description.</td>
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<thead>
<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 346</td>
</tr>
<tr>
<td>Title:</td>
<td>History of South Africa Since 1910</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>HIS 346W/HIS 446</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Mandala, E.</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see HIS 346W for the course description.</td>
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<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 375W</td>
</tr>
<tr>
<td>Title:</td>
<td>The Atlantic Slave Trade and Africa, 1650-1850</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>HIS 356W/HIS 456/ECO 385</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Inikori, J.</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Term Papers</td>
</tr>
<tr>
<td>Class Size:</td>
<td>15</td>
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<thead>
<tr>
<th>Department:</th>
<th>Anthropology</th>
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<tbody>
<tr>
<td>Course:</td>
<td>ANT 101</td>
</tr>
<tr>
<td>Title:</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Emmett, A</td>
</tr>
<tr>
<td>Restricitions:</td>
<td>Open only to freshmen &amp; sophomores</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Lectures, discussion, reading, films, two exams</td>
</tr>
<tr>
<td>Description:</td>
<td>This course is an introduction to the study of human culture that exposes students to the basic principles of anthropology. Students will be introduced to the range of cultural diversity that exists in the world, from tribal societies to modern nation-states. Through this encounter, students will learn to view exotic cultures in comparative context, and will critically reflect on what it means to be human.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Department:</th>
<th>Anthropology</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>ANT 102</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to Medical Anthropology</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>WST 115</td>
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<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 380</td>
</tr>
<tr>
<td>Title:</td>
<td>Senior Seminar</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Wolcott, V.</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Permission of Department required</td>
</tr>
<tr>
<td>Description:</td>
<td>Students will draw upon their exposure to the theory methods of AAS to produce an interdisciplinary research paper on a topic of their own choosing. Open only to senior majors.</td>
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<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 391</td>
</tr>
<tr>
<td>Title:</td>
<td>Independent Studies</td>
</tr>
<tr>
<td>Description:</td>
<td>Designed for Junior and Senior students who wish to pursue an independent reading program with a professor: it may also be used for readings in an advanced research seminar in which the student does not write the required essay and as such does not meet the 300-level seminar requirement, but it may be used as a distribution requirement within its area.</td>
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<tr>
<th>Department:</th>
<th>African &amp; African-American Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>AAS 394</td>
</tr>
<tr>
<td>Title:</td>
<td>Internship in African and African-American Studies</td>
</tr>
<tr>
<td>Description:</td>
<td>Experience in an applied setting supervised on site. Approved and overseen by a University Instructor.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Metcalf, Lois</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>Restrictions:</td>
<td>Open only to freshmen &amp; sophomores</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Lectures, discussions, readings, films</td>
</tr>
<tr>
<td>Description:</td>
<td>This course will examine selected topics in the study of medical and health care systems from an anthropological and cross-cultural perspective. The body of the course will consider several major areas of anthropological work on: ethnomedicine, or &quot;folk medicine&quot; and its interaction with Western medicine, the role of government policies in promoting, or retarding, the health of minority populations, the relationship between patients and healers; transcultural psychiatry; and relations between gender and illness. The course will use studies from a wide range of traditional cultures throughout the world, with frequent reference to the application of this research to modern &quot;Western&quot; medicine.</td>
</tr>
</tbody>
</table>

**Department:** Anthropology  
**Course:** ANT 110  
**Title:** Introduction to Linguistic Analysis  
**Cross-listed:** LIN 110  
**Instructor:** Carlson, G | Class Size: 30 |
| Restrictions:       | Permission of instructor required for freshmen |
| Coursework:         | Lectures, Discussions, Fieldwork Exercises, Reading, Guest Lectures  
| Description:        | Evaluation based on short papers, fieldnotes, active participation in class and final research project. |

**Description:** This non-major course will structure and connect a study abroad experience with the academic framework of study at home. Study abroad and cultural exchange programs provide university students with transformative experiences in foreign cultures. To maximize time away from home, students will prepare for cultural immersion and academic instruction abroad. We will prepare for study abroad by examining anthropological fieldwork methods, the collection of material culture, documentation of experiences in photo, audio and video, interview methods, handling and understanding culture shock, sharing your/our American culture abroad and framing research opportunities abroad. This is a two credit course - beginning October 20, 2008.  

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Foster, R.</th>
<th>Class Size: 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites:</td>
<td>At least two previous anthropology courses or permission of instructor</td>
<td></td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Not open to freshmen</td>
<td></td>
</tr>
<tr>
<td>Coursework:</td>
<td>Four 5 page papers, participation in class discussions</td>
<td></td>
</tr>
<tr>
<td>Description:</td>
<td>This course principally involves close reading of selected texts by four authors who established the framework of modern social theory: Adam Smith, Karl Marx, Max Weber and Sigmund Freud. Readings will focus on each author's attempt to comprehend modern society and, more specifically, the possibilities and pathologies of capitalism. The course explores the nature of work, sexuality and power. It considers the future of American democracy in a global market economy and it addresses recurrent questions of how to create community and secure conditions for liberty and justice for all.</td>
<td></td>
</tr>
</tbody>
</table>

**Department:** Anthropology  
**Course:** ANT 203  
**Title:** Ritual, Myth, and Scripture  
**Instructor:** Gibson, T. | Class Size: 25 |
| Prerequisites:      | At least two previous anthropology courses or permission of instructor |
| Restrictions:       | Not open to freshmen |
| Description:        | A survey of the major anthropological approaches to the study of the symbolic knowledge embedded in life-cycle rituals, origin myths and religious scriptures, including approaches inspired by the structuralism of Durkheim and Levi-Strauss; the structural functionalism of Turner and Douglas; the relativism of Evans-Pritchard and Winch; the interpretation of Weber and Geertz; and the genealogical method of Nietzsche and Foucault. |

**Department:** Anthropology  
**Course:** ANT 213  
**Title:** World Music  
**Cross-listed:** MHS 282/MUR 121  
**Instructor:** Koskoff, E  
**Description:** Explores some of the world's major music traditions, including theater music from China and Japan, Indian and Indonesian classical music, ritual and ceremonial music from West Africa, Eastern Europe, and the United States. Course focuses on musical sound structures as well as social, political, and religious contexts for musical performances. Requirements include readings and a term-long project. No previous musical training necessary.  

| Instructor:          |  |
|---------------------|  |
| Prerequisites:      |  |
| Restrictions:       |  |
| Coursework:         |  |
| Description:        |  |
Title: Love, Friendship and Community
Cross-listed: SOC 221
Instructor: Smith, T.  
Class Size: 20
Description: See SOC 221 for course description.

Department: Anthropology
Course: ANT 218
Title: Birth and Death I: Vital Events in Our Personal Lives
Cross-listed: AAS 221/WST 217/PM 407
Instructor: Carter, A.  
Class Size: 35
Restrictions: Permission of instructor required for freshmen
Coursework: Two short papers (5 percent each), two longer papers (20 and 30 percent), and two hourly exams (20 percent each)
Description: How do human beings experience, make sense of, cope with and shape birth illness, and death in their own lives and in the lives of those who are close to them? Historical and contemporary examples from North America, Latin America, Europe, the Middle East, Africa, and Asia.

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

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

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

Department: Anthropology
Course: ANT 239
Title: Latin American Immigration: Anthropology Without Borders
Instructor: Reichman, D  
Class Size: 20
Description: How has migration from Latin America to the United States and Canada reshaped culture, society, and economy on both sides of the US/Mexico border? This course will use the contemporary experiences of Latin American migrants to explore broader themes of globalization, transnationalism, and international justice. Course materials will include scholarly studies of contemporary migration, investigative journalism, and film.

Department: Anthropology
Course: ANT 241
Title: Women and Religion
Cross-listed: ANR 240; WST 240
Instructor: McHugh, E.  
Class Size: 20
Restrictions: Not open to freshmen
Description: A study of conceptions of women embodied in the imagery of various religious traditions, the role of women in worship, and the impact of religious traditions on feminine experience and social definitions of gender roles. For each region, we consider both religious doctrine and the lives of women in the context of societies holding to these religious beliefs. This is a three credit course taught at the Eastman School of Music.

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

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 264
Title: Islam and Global Politics
Cross-listed: REL 428
Instructor: Gibson, T.
Class Size: 40
Description: Recent events like the 9/11/01 attack on the World Trade Center have revealed the existence of a deep hostility toward the United States within certain groups in the Islamic world. In the first part of the course, we will explore the roots of this hostility in the centuries-old encounter between European colonialism and Muslim Asia. In the second part of the course, we will turn to how, in the twentieth century, the USA took on the imperial role once played by discredited European powers, and how radical Islam took on the role of resistance once played by discredited socialist and nationalist ideologies. Basic Texts: G. Kepel

"Jihad: The Trail of Political Islam"; G. Starrett "Putting Islam to Work"; Ahmad Rashid "Descent into Chaos"; M. McAlister "Epic Encounters"

American Sign Language

Department: American Sign Language
Course: ASL 101
Title: Beginning American Sign Language I
Class Size: 18
Exams: frequent quizzes; final
Description: An introductory course in American Sign Language as developed and used by the Deaf community in most areas of North America. It consists of a preparatory phase to attune students to communication in the manual-visual mode, followed by instruction and practice in vocabulary, sentence structure, elementary conversation, and literature. In addition, the course provides a survey of various issues raised by examining ASL and the Deaf community.
Continuation of basic study of the language and culture; an opportunity to build receptive and expressive sign vocabulary; use of signing space; further nonmanual components of ASL grammar including facial expression and body postures, and introduction of conversational regulators. Discussion of regional and ethnic sign variations, and social, political and educational institutions of the Deaf community. Interaction with members of the Deaf community in both directed and non-directed activities.

Department: American Sign Language  
Course: ASL 105  
Title: Intermediate American Sign Language I  
Class Size: 18  
Prerequisites: ASL 102 or ASL Skill Evaluation  
Exams: quizzes and final  
Description: This course emphasizes further development of receptive and expressive skills. Introduction to language forms used in ASL poetry and features of culture as displayed in art and theater.

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

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

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

Department: American Sign Language  
Course: ASL 203  
Title: Advanced ASL  
Class Size: 18  
Prerequisites: ASL 106. Course open to ASL Majors and Minors only.  
Restrictions: Open only to Junior and Senior majors of the offering department  
Description: This advanced language course allows students to extend their ASL competence and to use ASL in a variety of discourse and narrative settings. Skills to be developed are: semantic awareness analysis, in-depth exploration of ASL grammar and complex uses of space, ways of making transitions between ideas, use of classifiers, and determining appropriate perspective in specific texts.

Department: American Sign Language  
Course: ASL 260  
Title: Language and Psycholinguistics  
Cross-listed: BCS 152.  
Description: For description, see BCS 152.

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

Art & Art History

Department: Art & Art History  
Course: AH 101  
Title: Introduction to Art History  
Instructor: Duro, P.  
Class Size: 30  
Description: Fall 2009. This course is designed to introduce the student to aspects of the history of Western painting, sculpture, and architecture from the Renaissance through the present. We will examine the various schools and movements in their historical contexts, while paying particular attention to the histories that bear upon them such as the influence of the classical past, religion, gender, political power, and the rise of the artist. Rather than assuming there is one, totalitizing, art history, we will examine the histories of art through the lens of these various discourses. The course will therefore attempt two goals: one, to
familiarize students with the principal monuments of the western tradition from about 1400 onward, that is, the paintings, sculptures, buildings, and artifacts which form the substance of this narrative; two, to develop visual literacy, that is, the ability not only to identify but also to discuss art works in a way that develops critical competence and an understanding of how the western tradition of art has come about.

Department: Art & Art History
Course: AH 128
Title: Modern Art
Instructor: Haidu, R.
Exams: Midterm and final
Coursework: Two short papers
Description: Fall 2009. This course introduces students to art made from the late 19th century to the present day. Broad coverage of a long time span will be supplemented with a consideration of selected key works to familiarize students with points of reference and to introduce concepts. Readings will introduce ideas from contemporary theory. Issues of the artists approach to the object, the interplay of art and technology, and the way in which institutions have influenced the production and reception of modern art will be considered. The course will be taught by a combination of lecture and discussion.

Department: Art & Art History
Course: AH 136
Title: Introduction to the Art of Film
Cross-listed: ENG 117/FMS 132
Instructor: Middleton, J.
Description: Fall 2009. Please see ENG 117 for the course description.

Department: Art & Art History
Course: AH 137
Title: Introduction to Modern Architecture
Instructor: Walsh, D.
Class Size: No Limit
Description: Fall 2009. Topics include major figures such as Richardson, Sullivan, Voysey, Wright, Corbusier, or Mies van der Rohe, and topics such as the architectural development of structural metal, Art Nouveau, urban spaces, or the Bauhaus.

Department: Art & Art History
Course: AH 208
Title: Traditions in Japanese Art
Cross-listed: JPN 208/CLT
Instructor: Pollack, D.
Description: Fall 2009. Please see JPN 208 for description.

Department: Art & Art History
Course: AH 209
Title: Writing on Art
Cross-listed: SA 209
Instructor: Berlo, J.  
Class Size: 20
Restrictions: Permission of instructor required
Description: Fall 2009. Please see SA 209 for the course description.

Department: Art & Art History
Course: AH 210
Title: Woman as Image and Text
Cross-listed: AH 410, WST 214
Instructor: Seiberling, G.  
Class Size: 25
Restrictions: Permission of instructor required
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: Fall 2009. 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 ways 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 images and advertising from different periods, with concentration on the 19th and 20th centuries.

Department: Art & Art History
Course: AH 210
Title: Traditional Japanese Culture
Cross-listed: JPN 210
Instructor: Pollack, D.
Description: Fall 09. Please see JPN 210 for description.

Department: Art & Art History
Course: AH 222
Title: Traditional Japanese Culture
Cross-listed: JPN 210
Instructor: Pollack, D.
Description: Fall 09. Please see JPN 210 for description.

Department: Art & Art History
Course: AH 224
Title: Russian Art
Cross-listed: RST 224, RUS 224
Instructor: Maslennikova, A.
Description: Fall 2009. Please see RUS 224 for the description.
Fall 2009. Please see IT 244 for the course description.

Fall 2009. This course introduces the architecture of Western Europe from the eleventh to the fifteenth century. Building of this era is usually divided into two principal phases, Romanesque and Gothic. While there are numerous regional and chronological variations during these centuries, many instances of exchange across Europe and exotic influences through cross cultural contact, the course stresses the pan-European development of structural and aesthetic inventiveness and the extraordinary relation between form and content in buildings, whether churches, monastic communities, houses or castles. All of the works are examined against the changing values of cultures which constitute the transformation of the West.

Fall 2009. 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 Bertrand Blier, Luc Bresson, Andre Techine, Cyril Collard [SAVAGE NIGHTS], Mathieu Kassovitz, Claire Denis, Francois Ozon, Ahmed Bouchaala [KRIM], Karim Dridi [Bye-Bye] 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.

Fall 2009. This seminar course will address the issue of imitation and mimesis through the consideration of key texts from antiquity to the present. Texts will include the foundational philosophies of religious pilgrimages to study abroad or the contemporary urbanite's search for contact with exotic cultures, journeys to unfamiliar places have served many purposes. This seminar will present students with varied perspectives and methodologies through discussion of readings drawn from different fields, and will consider tourism in the past, looking at phenomena such as medieval pilgrimages or the Grand Tour in the 18th century, and the present, such as the shaping of the Other in Western eyes, or the implications of new media. Students' research projects will connect subject matter drawn from their own interests with the idea of tourism, taken in its broadest sense. When feasible, resources at local museums and archives will be tapped.
Plato and Aristotle, the many theorists of literature and art of the sixteen and seventeenth-centuries who wrote on imitation, and the reaction against imitation in modern art. We will select from this mass of material case studies in order to test these arguments. Throughout the course we will pay considerable attention to pivotal debates in theory, such as the association between painting and poetry (ut pictura poesis), imitation of past art, the question of the imitation of nature (imitatio sapiens) versus servile copying (imitatio insipiens), and related concepts such as originality, invention, the imagination, and representation. Both graduate and undergraduate students will have the opportunity to select a topic related to their own interests and develop it into a research paper (graduate students will in addition present their paper in class).

Department: Art & Art History  
Course: AH 311  
Title: Dance, Art, and Film  
Cross-listed: AH 511/FMS 308/FMS 508  
Instructor: Crimp, D.  
Class Size: 20  
Description: Fall 2009. This course explores relations among dance, art, and film at significant moments in the 20th and 21st centuries. We will study instances in which the forms are particularly closely aligned, including the famous productions by artists such as Gontcharova, Picasso, and Matisse, for Diaghilevs Ballets Russes; Martha Grahams partnership with Isamu Noguchi; and Merce Cunninghams work with Robert Rauschenberg. We will also look simply at how dance is filmed or how dance uses film. The course will concentrate on two figures of the postwar American avant-garde: Merce Cunningham and Yvonne Rainer. Cunninghams dances choreographed for film in collaboration with film- and video-makers and Rainers move from choreography to filmmaking and eventually to hybrids of the two will constitute the core of the course.

Department: Art & Art History  
Course: AH 313  
Title: Architecture/Photography, Modernism/Postmodernism  
Cross-listed: AH 513  
Instructor: Crimp, D.  
Class Size: 20  
Description: Fall 2009. The subject of this course is inspired by a series of photographs commissioned from Hiroshi Sugimoto for the Los Angeles Museum of Contemporary Arts exhibition At the End of the Century: On Hundred Years of Architecture. Sugimotos photographs show canonical works of modern architecture shot out of focus, reduced to both icon and phantom. In the seminar we will consider the changing relations between photography and architecturebetween image and space, between picture and objectfrom the advent of modernism to the present. We will look at these relations in the New Objectivity and the New Vision, Surrealism, the International Style, Mid-Century Modern, and we will end by considering the uses of the photography of architecture in Conceptual art and the fascination with modernist architecture in contemporary photographic work. We will read critical studies of modernist architecture and photography and plot the relations between these discourses and practices.
responds directly to political and social catastrophe as well as art made in the shadow of wars or during periods of political and social repression. We will discuss readings that range from Stephen Eisenman's recent book "The Abu Ghraib Effect," Susan Sontag's "Regarding the Pain of Others," and Ariella Azoulay's "Death's Showcase: The Power of Image in Contemporary Democracy"—three books that focus particularly on photography and its social role to Mark Godfrey's study of Abstract Expressionism, "Abstraction and the Holocaust" and Eyal Weizman's study of the relationship between military planning and urban and architectural planning in the Israeli-Palestinian conflict.

Description: Fall 2009. Please see AH 210 for description.

Department: Art & Art History
Course: AH 460
Title: Cultural Tourism
Cross-listed: AH 260
Instructor: Seiberling, G.  Class Size: 25
Description: Fall 2009. Please refer to description on AH 260.

Department: Art & Art History
Course: AH 508
Title: Art & Imitation--Mimesis and the Origins of Modern Picturing in Art & Culture
Cross-listed: AH 308
Instructor: Duro, P.
Description: Fall 09. Please see AH 308 for the description.

Department: Art & Art History -- Studio Arts
Course: SA 111

Department: Art & Art History
Course: AH 511
Title: Dance, Art, and Film
Cross-listed: AH 311/FMS 308/FMS 508
Instructor: Crimp, D.
Description: Fall 09. Please see AH 308 for the description.

Department: African & African-American Studies
Course: AH 598
Title: Senior Seminar: Art & Catastrophe
Cross-listed: AH 398
Instructor: Haidu, R.
Class Size: 20
Description: Fall 09. Please see AH 398 for description.

Art & Art History -- Studio Arts

Department: Art & Art History -- Studio Arts
Course: SA 111
Title: Introductory Drawing  
Instructor: Ashenfelder, S. 
Class Size: 10  
Restrictions: Not open to seniors  
Description: Fall 2009. This course is designed as an exploratory investigation into the art of drawing through a traditional and experimental approach. Through a sequence of projects, students will have the opportunity to develop formal artistic skills and spatial relationships while enhancing their conceptual understanding of art as a visual language. Students will work from life and from the imagination to solve both process-oriented and product-oriented visual problems. Students should expect to gain experience in pencil, charcoal, oil pastel, chalk pastel, ink, wax resist, and a variety of non-traditional media. Emphasis is given to learning a variety of processes; the resulting products act as documents of sight and insight. While a significant amount of time will be devoted to studio production, students will also meet regularly for demonstrations, presentations, and discussions. Evaluation will primarily be based on the quality and quantity of studio production as well as the effort to thoughtfully contribute to critiques and discussions. Relevant readings and short papers are to be expected. Students who have taken SA 171 with a drawing component are still invited to enroll. Not open to seniors. Studio art supplies fee: $50.

Department: Art & Art History - Studio Arts  
Course: SA 112  
Title: Concepts in Introductory Drawing  
Instructor: Ashenfelder, S. 
Class Size: 10  
Restrictions: Not open to seniors  
Coursework: Art production, critiques, written papers (when applicable), participation in class discussions.  
Description: Fall 2009. Why are we so fascinated with urban legends and international folklore? This studio course will use various forms of storytelling such as myths, fairytales, rituals, and legends as source material for creating traditional and nontraditional works of art. In addition, we will explore the visual language of religion, politics, and mass media in an effort to create our own contemporary folklore. In this course, students will have the opportunity to work with a wide variety of drawing media and techniques as well as experiment with creative alternatives. An emphasis will be placed on direct studio production. One-on-one discussions and large group critiques will support the studio experience and serve as a primary source of evaluation. Students who have taken SA 111 or SA 121 are encouraged to take this class. No previous studio art experience is necessary. Studio art supplies fee: $50.

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

Department: Art & Art History -- Studio Arts  
Course: SA 131  
Title: Introductory 3D  
Instructor: Cohen, E. 
Class Size: 10  
Restrictions: Not open to seniors  
Description: Fall 2009. A wide range of materials and techniques from metal and welding to assemblage, from wood to experimental methods and media is explored in the service of three dimensional design. In this course, we will explore the visual language of religion, politics, and mass media in an effort to create our own contemporary folklore. In this course, students will have the opportunity to work with a wide variety of drawing media and techniques as well as experiment with creative alternatives. An emphasis will be placed on direct studio production. One-on-one discussions and large group critiques will support the studio experience and serve as a primary source of evaluation. Students who have taken SA 111 or SA 121 are encouraged to take this class. No previous studio art experience is necessary. Studio art supplies fee: $50.

Department: Art & Art History -- Studio Arts  
Course: SA 141  
Title: Introductory Photography
Instructor: Ashenfelder, S.  
Class Size: 10

Restrictions:  
Not open to seniors

Description:  
Fall 2009. The goal of this course is to begin to formulate conceptual ideas and gain the skills and techniques necessary to synthesize these ideas into photographic images. This course will introduce basic techniques and concepts in contemporary photography. Students will read and write on photographers, artists, historians and theoreticians within the context of studio practice. Techniques covered will include basic 35 mm camera operation, black and white film processing and print development. Not open to seniors. Studio art supplies fee: $50.

Department:  
Art & Art History -- Studio Arts

Course:  
SA 151

Title:  
Introductory Digital Art

Cross-listed:  
FMS 205

Instructor:  
Ashenfelder, S.  
Class Size: 10

Prerequisites:  
Some familiarity with Macintosh computer required

Restrictions:  
Not open to seniors

Description:  
Fall 2009. For the purpose of this course, the computer and software will be a medium of artistic production. Students will use writings, and readings on contemporary art practice and theory to create work within the framework of contemporary digital art. Software, namely Adobe PhotoShop and Macromedia Dreamweaver, will be the medium for materializing conceptual ideas. Prior experience with the software used in this course is not required. Not open to seniors. Studio art supplies fee: $50.

Department:  
Art & Art History - Studio Arts

Course:  
SA 192

Title:  
Concepts in Introductory Visual Production--Techniques in Animation

Cross-listed:  
FMS 192

Instructor:  
Ashenfelder, S.  
Class Size: 10

Restrictions:  
Not open to seniors

Description:  
Fall 2009. This introductory course explores a variety of materials and approaches to time-based concepts and techniques. Time-based work is explored at its point of intersection between ephemeral art form and the tools and materials shaping the production. Class topics reference the development of media technologies as a foundation for realizing works combining forms of installation, drawing, sound, painting, and sculptural elements. Readings and screenings provide examples of both historical and contemporary approaches using light and shadow projections, lightning sketches, flipbooks, claymation, stop-motion, model-building, as well as digital and interactive techniques. While drawing, sculpture and time-based production courses are a good introduction to this course, they are not required. Not Open to seniors. Permission of instructor required. Studio art supplies fee: $50.

Department:  
Art & Art History -- Studio Arts

Course:  
SA 161

Title:  
Introductory Video & Sound Art

Cross-listed:  
FMS 161, ENG 161

Instructor:  
Ashenfelder, S.  
Class Size: 10

Restrictions:  
Permission of instructor required

Description:  
Fall 2009. Please see FMS 161 for the course description. Permission of instructor required. Not open to seniors.

Department:  
Art & Art History - Studio Arts

Course:  
SA 209

Title:  
Writing on Art

Cross-listed:  
AH 209

Instructor:  
Berlo, J.  
Class Size: 20

Restrictions:  
Permission of instructor required

Description:  
Please see SA 209 for the course description.

Department:  
Art & Art History -- Studio Arts

Course:  
SA 222A

Title:  
Advanced Painting

Cross-listed:  
SA 222B/SA 222C
Fall 2009. This course provides a continuation of Introductory Painting with an intense emphasis on independent proposals, research, and studio production. Regular group discussions, individual meetings, and peer critiques will serve to enhance the experience. Various readings and short films will provide a foundation in theoretical frameworks and a platform for understanding the history and future of painting. An exploration of the broadest examination of painting and related media is to be expected. With faculty and peer support, students will develop professional-quality artist statements and will write reviews of each others work. Within the context of the class, students will discuss the logistics of acquiring, promoting, and installing a professional exhibition, including multiple strategies for display. Students should expect to leave this class with the artistic maturity required to respond to and challenge a wide range of contemporary painting topics. This course may be taken more than once. Permission of instructor required. Studio art supplies fee: $50.

Fall 2009. Please see SA 222A for the course description.

Fall 2009. Please see SA 222A for the course description.

Fall 2009. This class broadens the investigation undertaken in introductory 3D classes to include other materials and processes as well as focus on working in an interdisciplinary fashion. Projects open up the practice of sculpture to include an expanded notion of space and form to further the development of the student's three-dimensional vocabulary and further their options for articulating ideas. The scheduled class days will consist of studio production, slide presentations, technical demonstrations, discussion of assigned readings, one on one meetings, project critiques. Permission of instructor required. Studio arts supplies fee: $50.

Fall 09. Please see SA 232A for the course description.

Fall 2009. Advanced Photography will examine and expand upon the issues and practice of contemporary photography. Large format photography, studio lighting, fine silver printing and toning will be covered within a conceptual framework. Students entering this course are expected to have an understanding of contemporary art, artistic writing and be willing to advance their studio practice. Students will be encouraged to combine their work with written research. Permission of instructor only. Studio art supplies fee: $50.
**Department:** Art & Art History - Studio Arts  
**Course:** SA 242C  
**Title:** Advanced Photography  
**Cross-listed:** SA 242A/242B  
**Instructor:** Shindelman, M.  
**Class Size:** 10  
**Restrictions:** Permission of instructor required  
**Description:** Fall 2009. Please see SA 242A for the course description.

**Department:** Art & Art History -- Studio Arts  
**Course:** SA 273A  
**Title:** Issues in Advanced 2D: Image Text  
**Cross-listed:** SA 273B/273C  
**Instructor:** Shindelman, M.  
**Class Size:** 10  
**Restrictions:** Permission of instructor required  
**Description:** Fall 2009. There is a historical relationship between text and the visual image. This course will cover basic typography and typographic theory, layout writing, and the conceptual incorporation of text into work. Various methods of text application, including digital printing, screen printing, and mixed media will be covered. Four basic areas of text will be explored: autobiographical, political, appropriated and text as image. Permission of instructor required. Studio arts supplies fee: $50.

**Department:** Art & Art History -- Studio Arts  
**Course:** SA 273B  
**Title:** Issues in Advanced 2D -- Image Text  
**Cross-listed:** SA 273A/SA 273C  
**Instructor:** Shindelman, M.  
**Class Size:** 10  
**Restrictions:** Permission of instructor required  
**Description:** Fall 2009. Please see SA 273A for the course description.

**Department:** Art & Art History -- Studio Arts  
**Course:** SA 273C  
**Title:** Issues in Advanced 2D--Image Text  
**Cross-listed:** SA 273A/SA 273B  
**Instructor:** Shindelman, M.  
**Class Size:** 10  
**Restrictions:** Permission of instructor required  
**Description:** Fall 2009. Please see SA 273A for the course description.

**Department:** Biology  
**Course:** BIO 104K  
**Title:** Ecosystem Conservation and Human Society  
**Instructor:** Robert Minckley  
**Prerequisites:** None  
**Coursework:** 2 tests, 1 group project, 1 independent project  
**Description:** As the natural resources on which human society depends are depleted, the need for sound conservation policies increases. The course examines a new approach in conservation biology that identifies and places economic value on the services that natural ecosystems provide. Such services are basic to sustainable societies and include clean water and air, waste decomposition, pollination and farm land productivity. Major themes the course covers include an overview of other approaches in conservation biology, a review of the services that ecosystems provide, ways

**Department:** Biology  
**Course:** SA 396  
**Title:** Senior Studio and Seminar - Fall  
**Instructor:** Topolski, A.  
**Class Size:** 10  
**Restrictions:** Permission of instructor required  
**Description:** Fall 2009. This course is designed to support the transition between undergraduate coursework in the arts and independent, professional, and post-graduate pursuits. The course has three essential components: (1) Studio Production and Critique, (2) the Mechanics of the Profession, and (3) Contemporary Artists and Issues as they relate to Visual and Cultural Theory, Art History, and Art Criticism. The production component will consist of the intensive critique of ongoing studio work with an emphasis on the importance of shifting toward self-motivated production. Students should expect and be prepared for one-on-one, small group, large group, and visiting critiques. Discussion on the mechanics of the profession will include detailed and individually tailored guidance on career choices, graduate school preparation, and group and solo exhibition. Contemporary issues and artists will be thoughtfully considered through readings, discussions, and written responses. The fall semester will serve as the first half of the development toward a solo thesis exhibition and includes an artist talk, which includes documentation, explanation, reference, and an explanation of the relevance of the students work in the context of contemporary art. The spring semester includes a solo exhibition of the students work that is the culmination of their research and production. This class is limited to and required of senior studio majors. Permission of instructor required. Studio art supplies fee: $50.

**Department:** Biology  
**Course:** SA 391  
**Title:** Independent Study  
**Description:** Individual studio work at an advanced level and under the guidance of a member of the Studio Arts faculty.
the value of these services are determined, and how this novel approach is influencing economic and political policy at local, national, and international levels.

<table>
<thead>
<tr>
<th>Department:</th>
<th>Biology</th>
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<tbody>
<tr>
<td>Course:</td>
<td>BIO 110</td>
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<tr>
<td>Title:</td>
<td>Principles of Biology I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Olek, A.</td>
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<tr>
<td>Class Size:</td>
<td>150</td>
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<tr>
<td>Prerequisites:</td>
<td>Completion or concurrent enrollment in CHM 131 or equivalent</td>
</tr>
<tr>
<td>Exams:</td>
<td>Three 90 minute exams and one 3 hour final exam</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Three 50 min lectures and one 2 hour problem based workshop per week</td>
</tr>
<tr>
<td>Description:</td>
<td>The first semester in a year long course sequence designed for majors and minors in biology. Major topics include: biochemistry, molecular and cellular evolution, cell reproduction, fundamentals of genetics and molecular biology.</td>
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<tr>
<th>Department:</th>
<th>Biology</th>
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<tbody>
<tr>
<td>Course:</td>
<td>BIO 112</td>
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<tr>
<td>Title:</td>
<td>Perspectives in Biology I</td>
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<td>Instructor:</td>
<td>Platt, T.</td>
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<td>Class Size:</td>
<td>100</td>
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<tr>
<td>Prerequisites:</td>
<td>See Description below</td>
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<tr>
<td>Restrictions:</td>
<td>Open to freshmen only</td>
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<tr>
<td>Exams:</td>
<td>Two exams during the term and a final examination</td>
</tr>
<tr>
<td>Description:</td>
<td>The first semester of a two-course introductory sequence for students with a strong background in science. Topics include biochemistry, molecular and cellular evolution, cell reproduction, fundamentals of genetics and molecular biology. This course differs from BIO 110: there will be greater emphasis on the chemistry underlying biological processes and on experimental approaches, data analysis, and quantitative methods. It will also include reading original papers, and a significant writing component (e.g. preparation of a book review from among selected titles, such as The Selfish Gene). Note both BIO 110 and BIO 112 are designed to prepare students who intend to major in biology. Prerequisites: Students with a score of 4 or 5 on the AP Biology test, particularly those who have an interest in research. Completion or concurrent enrollment in CHM 131 or equivalent.</td>
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<th>Department:</th>
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<td>Course:</td>
<td>BIO 198</td>
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<tr>
<td>Title:</td>
<td>Principles of Genetics</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Sia, E.</td>
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<tr>
<td>Class Size:</td>
<td>250</td>
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<tr>
<td>Prerequisites:</td>
<td>BIO 110 and completion or concurrent enrollment in CHM 203 or CHM 205</td>
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<tr>
<td>Exams:</td>
<td>Three 1 hour exams and a comprehensive final exam</td>
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<th>Department:</th>
<th>Biology</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>BIO 198L</td>
</tr>
<tr>
<td>Title:</td>
<td>Principles of Genetics Lab</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Ramsey, T.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>150</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Concurrent with BIO 198 or after completion of BIO 198.</td>
</tr>
<tr>
<td>Exams:</td>
<td>Quizzes, laboratory reports and other assignments</td>
</tr>
<tr>
<td>Coursework:</td>
<td>One 3.5 hour laboratory per week</td>
</tr>
<tr>
<td>Description:</td>
<td>This course is an introduction to basic genetic theory and laboratory practices. Topics include classical inheritance in eukaryotes, bacterial genetics and molecular technology techniques. Emphasis is on data analysis and experimental design.</td>
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<thead>
<tr>
<th>Department:</th>
<th>Biology</th>
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<tbody>
<tr>
<td>Course:</td>
<td>BIO 202</td>
</tr>
<tr>
<td>Title:</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>BIO 402</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Benyajati, C., Bi X., Bi, X.</td>
</tr>
<tr>
<td>Exams:</td>
<td>Three midterm exams and a comprehensive final exam</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Two 75 minute lectures and one 75 minute recitation per week</td>
</tr>
<tr>
<td>Description:</td>
<td>This course deals with the molecular mechanisms of gene replication, gene expression, and the control of gene expression in both prokaryotic and eukaryotic cells. Topics include: enzymatic mechanisms of DNA replication, recombination and repair; transposable elements; DNA transcription; RNA splicing; RNA translation; repressors, activators and attenuators; recombinant DNA and genetic engineering.</td>
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<thead>
<tr>
<th>Department:</th>
<th>Biology</th>
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<tbody>
<tr>
<td>Course:</td>
<td>BIO 203</td>
</tr>
<tr>
<td>Title:</td>
<td>Mammalian Anatomy</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Dietsche, A</td>
</tr>
<tr>
<td>Class Size:</td>
<td>120</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>BIO 110 or BIO 112 and BIO 111 or BIO 113 or permission of instructor</td>
</tr>
<tr>
<td>Exams:</td>
<td>Four 50 min exams</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Three 50 min lectures and one three-hour laboratory per week.</td>
</tr>
</tbody>
</table>
This course deals with the structural and systematic anatomy of animals with special emphasis on human beings. Laboratory includes the dissection of fresh and preserved tissue plus analysis of structures and systems.

**Department:** Biology  
**Course:** BIO 205  
**Title:** Evolution  
**Instructor:** Orr, A.  
**Class Size:** 100

**Prerequisites:** BIO 111 or BIO 113 and BIO 198

**Exams:** Two 70 min exams plus a comprehensive final exam.

**Coursework:** Two 75 min lectures and one 50 min recitation per week.

**Description:** Fundamentals of Evolution. Topics include natural selection and its ecological basis, population genetics including selection and drift, speciation, and molecular evolution including the neutral theory, molecular phylogeny and the molecular clock.

This course focuses on molecular mechanisms of aging. We will discuss popular theories of aging, model organisms used in aging research, evolution of aging, relation between aging and cancer, human progeroid syndromes, and interventions to slow aging.

**Department:** Biology  
**Course:** BIO 225  
**Title:** Laboratory in Ecology and Evolutionary Biology  
**Instructor:** Ramsey, T., Minckley, R.  
**Class Size:** 24

**Prerequisites:** Past or current enrollment in BIO 205 or BIO 263

**Restrictions:** Permission of instructor required

**Coursework:** Two 4-hour labs and one 50-minute recitation per week

**Description:** This course emphasizes the development of testable questions and implementation of appropriate observations and experiments on a series of topics in ecology and evolution. Many of the mini-studies will be done in the field on non-model organisms native to New York. Students will gain experience on field and lab methods used in ecology and evolutionary biology (including relevant computer applications), critiquing published scientific studies, writing scientific reports, and presentation of scientific results.

This course deals with the cellular and molecular aspects of animal development, with emphasis on processes and underlying mechanisms. Topics include embryonic cleavage, gastrulation, early development of model vertebrates and invertebrates, patterning of cell fates along embryonic axes of Drosophila and vertebrates, organogenesis and stem cells.

**Department:** Biology  
**Course:** BIO 226  
**Title:** Developmental Biology  
**Instructor:** Lambert, D.  
**Class Size:** 80

**Cross-listed:** BIO 426

**Prerequisites:** BIO 198 or permission of the instructor

**Exams:** Three 75-min exams and a comprehensive final exam

**Coursework:** Two 75-min lectures per week and a 50 min recitation per week

**Description:** This course deals with the cellular and molecular aspects of animal development, with emphasis on processes and underlying mechanisms. Topics include embryonic cleavage, gastrulation, early development of model vertebrates and invertebrates, patterning of cell fates along embryonic axes of Drosophila and vertebrates, organogenesis and stem cells.

**Department:** Biology  
**Course:** BIO 228  
**Title:** Laboratory in Cell and Developmental Biology  
**Cross-listed:** BIO 428

**Instructor:** Benyajati, C. and Bi, X.  
**Class Size:** 24
Prerequisites: Strongly recommended BIO 250; should have completed biology core as well as chemistry requirements

Exams: Two four-hour labs and one 50 min recitation per week

Description: This course is designed to provide (i) training in specific methods used in molecular, cell and developmental biology research, with emphasis on data acquisition and analysis (ii) experience in the design and execution of experiments, writing scientific reports, and public scientific presentation.

Department: Biology
Course: BIO 260
Title: Animal Behavior
Cross-listed: BIO 460
Instructor: Werren, J.  
Class Size: 75
Prerequisites: BIO 111 or BIO 113
Exams: Three 50 min lectures and one 50 min recitation per week

Description: Examines animal behavior from an ecological and evolutionary perspective. Topics include social organization, mating systems, foraging, aggression, and animal learning. Students also learn quantitative techniques in behavioral biology.

Brain & Cognitive Sciences

Department: Brain & Cognitive Sciences
Course: BCS 110
Title: Neural Foundations of Behavior
Cross-listed: PSY/CVS 110
Instructor: Pouget, A.  
Class Size: 200
Prerequisites: None
Exams: Three mid-terms and a final, all multiple choice.

Description: Introduces the structure and organization of the brain, and its role in perception, movement, thinking, and other behavior. Topics include the brain as a special kind of computer, localization of function, effects of brain damage and disorders, differences between human and animal brains, sex differences, perception and control of movement, sleep, regulation of body states and emotions, and development and aging.

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

Department: Brain & Cognitive Sciences
Course: BCS 200
Title: Statistical Analysis and Experimental Design
Cross-listed: PSY 200
Instructor: Knill, D.  
Class Size: 60

Coursework: There are two lectures and a computer lab per week. Students should sign up for one lab section as well as for the lecture.

Description: Introduces statistical methods including descriptive statistics (count, central tendency, dispersion), hypothesis testing (significance, t-test, chi-square, etc.) and elements of correlation, regression, and interaction. Emphasis is on what a technique does at a conceptual level, how a technique is reported in the literature, and how to execute a technique.

Department: Brain & Cognitive Sciences
Course: BCS 204
Title: Lab in Cognitive Neuroscience
Instructor: Holtzman, D.
Prerequisites: BCS 200 and BCS 153
Description: Introduces methods used in cognitive neuroscience, a field that examines cognitive phenomena in terms of their underpinnings in the brain. Covers functional anatomical approaches to studying brain function and dysfunction, behavioral and brain imaging approaches to studying learning and memory, and neuropsychological approaches to understanding sensory, motor, and cognitive processing and disorders.

Coursework: This course carries upper-level writing credit. Papers are written and graded both for content and form.

Department: Brain & Cognitive Sciences
Course: BCS 205
Title: Lab in Development & Learning
Cross-listed: PSY 205
Instructor: Aslin, R.
Class Size: 15
Prerequisites: BCS 200 and one of the BCS core courses (151, 152, 153) or BCS 172
Coursework: This course carries upper-level writing credit. Papers are written and graded both for content and form.

Description: Introduces behavioral methods used to study the development of perception, cognition, and language, and provides hands-on experience in the testing of human infants and children. Includes two research projects and a final powerpoint presentation.

Department: Brain & Cognitive Sciences
Course: BCS 240
Title: Basic Neurobiology
Cross-listed: NSC 201
Instructor: Nordeen, E.
Class Size: 70
Prerequisites: BIO 110 or BIO 112 AND BIO 111 or BIO 113 AND BIO 111L or BIO 113L
Exams: 4-5 mid-term exams, cumulative final; 2 papers

Coursework: The associated laboratory (BCS 240L) is for students intending to take the spring Lab in Neurobiology (BCS 203).

Description: Please see NSC 201 for the course description.

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

Description: Please see NSC 243 for the course description.

Department: Brain & Cognitive Sciences
Course: BCS 246
Title: The Biology of Mental Disorders
Cross-listed: NSC/PSY 246
Instructor: Kellogg, C.,Como, P.
Class Size: 20
Prerequisites: BCS 110 and BIO 110 (or equivalent), or NSC 201
Exams: 5 exams, a combination of take-home and in-class
Coursework: Examines the neurobiology of anxiety/phobic conditions, mood disorders, and chronic psychotic states, particularly schizophrenia. Considers definitions of psychiatric syndromes, the problems of diagnosis, brain organization, and neurotransmitter systems involved in state functions. Introduces research approaches including epidemiologic, phenomenologic, family/adoption, longitudinal descriptive, psychophysologic, neuropharmacologic, genetic linkage, and postmortem studies; emphasizes recent in vivo brain imaging and neuroreceptor studies.

Coursework: The associated laboratory (BCS 246L) is for students intending to take the spring Lab in Neurobiology (BCS 203).

Description: Please see NSC 243 for the course description.

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

Department: Chemistry
Course: CHM 131
Title: Chemical Concepts, Systems and Practices I
Instructor: Krauss, T., Krugh, T.
Class Size: 250
Prerequisites: High school Chemistry course
Exams: Three Exams and a Final
Description: This 5 credit course is an introduction to the concepts of chemistry for science and engineering students, health professions students, and as a science course for students of the humanities and social sciences. Properties of chemical systems are discussed from a macroscopic and molecular perspective with examples developed from a wide range of disciplines. The Topics covered include stoichiometry, atoms and molecules, properties of gases, thermochemistry, chemical equilibrium, acids and bases, solubility equilibria, and oxidation-reduction reactions. M W F - Krauss: Three 50 minute lectures per week. T R - Krugh: Two 75 minute lectures per week. In addition, there is a three-hour laboratory in alternate weeks, a 50 minute laboratory lecture and a 75 minute workshop (Krauss) or a 75 minute recitation (Krugh). Laboratories are held Monday to Thursday, 1400-1700 and 1730-2030, and Friday, 1400-1700. Recitations and workshops are offered at multiple times during the week. During the first week of classes you will be assigned a laboratory section and recitation/workshop section that fits into your schedule.

Department: Chemistry
Course: CHM 131
Title: Chemical Concepts, Systems and Practices I
Instructor: Krauss, T., Krugh, T.
Class Size: 250
Prerequisites: High school Chemistry course
Exams: Three Exams and a Final
Description: This 5 credit course is an introduction to the concepts of chemistry for science and engineering students, health professions students, and as a science course for students of the humanities and social sciences. Properties of chemical systems are discussed from a macroscopic and molecular perspective with examples developed from a wide range of disciplines. The Topics covered include stoichiometry, atoms and molecules, properties of gases, thermochemistry, chemical equilibrium, acids and bases, solubility equilibria, and oxidation-reduction reactions. M W F - Krauss: Three 50 minute lectures per week. T R - Krugh: Two 75 minute lectures per week. In addition, there is a three-hour laboratory in alternate weeks, a 50 minute laboratory lecture and a 75 minute workshop (Krauss) or a 75 minute recitation (Krugh). Laboratories are held Monday to Thursday, 1400-1700 and 1730-2030, and Friday, 1400-1700. Recitations and workshops are offered at multiple times during the week. During the first week of classes you will be assigned a laboratory section and recitation/workshop section that fits into your schedule.

Department: Chemistry
Course: CHM 173Q
Title: Quest Organic Chemistry Laboratory
Instructor: Nilsson, B.
Class Size: 30
Prerequisites: Two years of general chemistry and an Advanced Placement score of 4 or 5, or equivalent preparation. Co-registration in CHM 171Q
Restrictions: Open to freshmen only
Description: CHM 173Q is the fall semester, one credit laboratory accompanying CHM 171Q, a one year exploration of the basic observations, concepts and practice of organic chemistry, with a focus on the fundamental relationships among molecular structure and chemical reactivity. The exploration will require that students grapple with Quest issues: defining questions, evaluating evidence, weighing arguments, reflecting on epistemological issues, constructing new experiments, etc. The study of organic chemistry will be carefully integrated with a review of the key concepts from general chemistry. Quest Organic Chemistry is designed for first year students with good preparation in chemistry (see prerequisites).

Department: Chemistry
Course: CHM 173Q
Title: Quest Organic Chemistry Laboratory
Instructor: Nilsson, B.
Class Size: 30
Prerequisites: Two years of general chemistry and an Advanced Placement score of 4 or 5, or equivalent preparation. Co-registration in CHM 171Q
Restrictions: Open to freshmen only
Description: CHM 173Q is the fall semester, one credit laboratory accompanying CHM 171Q, a one year exploration of the basic observations, concepts and practice of organic chemistry, with a focus on the fundamental relationships among molecular structure and chemical reactivity. The exploration will require that students grapple with Quest issues: defining questions, evaluating evidence, weighing arguments, reflecting on epistemological issues, constructing new experiments, etc. The study of organic chemistry will be carefully integrated with a review of the key concepts from general chemistry. Quest Organic Chemistry is designed for first year students with good preparation in chemistry (see prerequisites).

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

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

Department: Chemistry
Course: CHM 207
Title: Organic Chemistry I Laboratory
Instructor: Toder, B.
Class Size: 350
Prerequisites: Co-registration in CHM 203.
Exams: Several lab quizzes during lecture.
Coursework: One 3-hour laboratory & one 50 minute laboratory lecture per week.

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

Department: Chemistry
Course: CHM 211
Title: Inorganic Chemistry
Cross-listed: CHM 411
Instructor: Eisenberg, R.
Class Size: 45
Prerequisites: Organic Chemistry
Description: This course covers descriptive chemistry of main group elements, bonding in inorganic systems, coordination chemistry and the properties and reactions of transition metal complexes. Two 75 minute lectures per week. Three 90 minute examinations plus group projects and problem sets.

Department: Chemistry
Course: CHM 231
Title: Chemical Instrumentation
Instructor: McCamant, D.
Class Size: 36
Prerequisites: CHM 131, CHM 132, CHM 203, CHM 204, plus one year each of college level physics and mathematics.
Restrictions: Not open to freshmen and sophomores
Exams: One 1-hour exam and a final exam, laboratory work, 10 written lab reports.
Description: This course will provide an understanding of both the method and the application of modern chemical instrumentation to chemical problems and systems. The problems will be deliberately chosen to cover a range of different chemical systems. One lecture and 2 labs week. Prereq: One each year of Freshman and Organic Chemistry. One year each of college physics and mathematics. Concurrent registration in CHM 251 is recommended. This class is 4 credit hours.

Department: Chemistry
Course: CHM 251
Title: Physical Chemistry I
Cross-listed: CHM 441
Instructor: Farrar, J.
Class Size: 60
Prerequisites: PHY 121-123 or 113-114; MTH 163 or 165.
Exams: Three 1-hour exams and Final.
Description: This course is an introduction to quantum mechanics with applications to spectroscopy and to atomic and molecular structure. There are weekly problem sets. Students also participate in workshops each week.

Department: Chemistry
Course: CHM 352
Title: Issues in Workshop Leadership
Cross-listed: CAS 352 F/ CAS 355 S
Instructor: Perez, C., Dinnocenzo, J., Goodman, J., Farrar, J., Frontier, A.
Description: A 2-credit course (fall; 1-credit in spring) to prepare students to be effective Workshop leaders in Chemistry courses. Topics include: group dynamics; diversity; student development; learning theory; cognitive apprenticeship; metacognition and constructivism. These ideas are developed and applied in the context of Workshop practice. Cross-listed as CAS352 (fall) and CAS 355 (spring - one credit). The class meets for 1.5 hours each week in the semester in which students are leading Workshops. Readings from the research literature, class discussion and a research paper and presentation are required.

Department: Chemistry
Course: CHM 391
Title: Independent Study
Instructor: Various
Restrictions: Special application required
Description: Individual study of advanced topics arranged by students.

Department: Chemistry
Course: CHM 393
Title: Senior Thesis Research
Instructor: Various
Restrictions: Special application required
Description: Independent research directed by faculty member to be arranged during semester preceding registration. Written report and participation in a department poster session required. For BS Chemistry majors, two semesters of CHM 393 are required (8 credits).

Department: Chemistry
Course: CHM 395
Title: Independent Research
Instructor: Various
Restrictions: Special application required
Description: A research course designed by individual arrangement with a faculty member. Plan on spending at least the equivalent of two afternoons (eight hours) a week in the lab. The basis for determining your grade for the research course is worked out between the student and the professor as part of registration for independent research.
Course: CHM 411
Title: Advanced Inorganic Chemistry I
Cross-listed: CHM 211
Instructor: Eisenberg, R.
Restrictions: Open only to graduate students in offering department
Description: Please see CHM 211 for the course description.

Course: CHM 414
Title: Bio-Inorganic Chemistry
Instructor: Holland, P.
Prerequisites: CHM 211 / CHM 411 or a course in inorganic chemistry or by permission of the instructor.
Coursework: Problem sets, proposal
Description: Discussion of the role of metal ions in biological systems, especially enzymes. Uptake and regulation of metals, common spectroscopic techniques used for studying metals, and mechanisms through which they react. Other topics include metal ion toxicity, metal-based drugs, and interaction of metals with nucleic acids.

Course: CHM 415
Title: Group Theory
Instructor: Jones, W.
Class Size: 20
Exams: Final Exam
Coursework: Weekly Problem Sets
Description: 2 credits - Development of symmetry and group theory concepts and scope of applications to chemical problems. Offered Fall, 1st half of semester

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

Course: CHM 421
Title: Basic Organometallic Chemistry
Instructor: Jones, W.
Class Size: 30
Coursework: Two 75-minute lectures per week with extensive reading assignments from original literature.
A survey of reactions of organic compounds with emphasis on those with practical synthetic utility will be provided. Mechanisms of reactions will be considered as well as their scope and limitations. Stereochemical and stereoelectronic issues will be discussed. Selected topics to be covered are conformational analysis, olefin addition reactions, oxidation and reduction methods, pericyclic reactions, chemistry of enolates and metalloenamines, organosilicon chemistry, chemistry of nitrogen- and sulfur-based functional groups, chemistry of reactive intermediates, such as carbocations and carbenes. A solid background of college organic chemistry, including a good knowledge of reaction mechanisms, will be assumed as a prerequisite.

Department: Chemistry
Course: CHM 437
Title: Bioorganic Chemistry
Instructor: R. Fasan
Class Size: 20
Prerequisites: One year of organic chemistry; 1 semester undergraduate biochemistry or biology recommended.
Restrictions: Not open to freshmen and sophomores
Exams: Two 1-hour exams and a paper.
Description: An introduction to bioorganic chemistry and chemical biology. The course will present a survey of how the principles of organic chemistry have been applied to understand and exploit biological phenomena and address fundamental questions in life sciences. The course is primarily based upon the primary literature. Covered topics include the design and mechanism of enzyme mimics and small molecule catalysts (organocatalysts), synthesis and chemical modification of biomolecules (oligonucleotides, proteins, oligosaccharides), design and application of oligonucleotide and peptide mimetics, and chemical approaches to proteomic and genetic analyses.

Department: Chemistry
Course: CHM 441
Title: Physical Chemistry I
Cross-listed: CHM 251
Instructor: Farrar, J.
Class Size: 24
Prerequisites: PHY 121-123 or 113-144; MTH 163 or MTH 165.
Exams: Three 1-hour exams and Final.
Description: Please see CHM 251 for the course description.

Department: Chemistry
Course: CHM 451
Title: Quantum Chemistry I
Instructor: Rothberg, L.
Class Size: 20
Prerequisites: CHM 251 or equivalent
Exams: Take-home midterm and final exam
Coursework: Weekly 2-3 computer labs and problem sets.
Description: In this course students will learn about a range of computational methods used to attack research problems in chemistry. Emphasis will be placed both on the theory underlying computational techniques and on their practical application. Topics will include molecular mechanics, ab initio electronic structure theory, density functional theory, molecular dynamics and Monte Carlo simulations, methods for free-energy calculations, path-integral techniques, and methods for protein structure prediction.

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

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

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

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

Course: CSP 263
Title: Relationship Process and Emotions

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

Course: CSP 289
Title: Developmental Child Psychopathology
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Restrictions</th>
<th>Department</th>
<th>Course</th>
<th>Title</th>
<th>Cross-listed</th>
<th>Instructor</th>
<th>Restrictions</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>PSY 289</td>
<td>Cross-listed:</td>
<td>Davies P.</td>
<td>Class Size: 125</td>
<td></td>
<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 364</td>
<td>Achievement &amp; Motivation</td>
<td>PSY 364</td>
<td>Niemiec, C.</td>
<td>Permission of instructor required</td>
<td>This course provides guided, direct experiences with research on adolescent development, with a particular focus on adolescence in the context of family relationships.</td>
</tr>
<tr>
<td>CSP 301W</td>
<td>Title: Teaching Psychology</td>
<td></td>
<td></td>
<td></td>
<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 364</td>
<td>Achievement &amp; Motivation</td>
<td>PSY 364</td>
<td>Niemiec, C.</td>
<td>Permission of instructor required</td>
<td>Description: Seminar on achievement motivation, including achievement motives (e.g., fear of failure), achievement goals, and the strategies individuals use in achievement settings.</td>
</tr>
<tr>
<td>PSY 301W</td>
<td>Cross-listed:</td>
<td></td>
<td></td>
<td></td>
<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 368W</td>
<td>Seminar in Humanistic Psychology</td>
<td>PSY 368W</td>
<td>Niemiec, C.</td>
<td>Permission of instructor required</td>
<td>Description: This course will be an introduction to the theory and methods of humanistic psychology, with particular emphasis on humanistic approaches to psychotherapy and growth. The approach is learning through experience. In class, we will employ the methods of humanistic psychology, including demonstrations and experimentation. Assignments will include regular reading and writing. Writing will require the applications of theory to one's own life experiences. This is an upper-level writing course for all participants.</td>
</tr>
<tr>
<td>CSP 310W</td>
<td>Title: Honors Research I</td>
<td>Niemiec, C.</td>
<td></td>
<td>Permission of instructor required</td>
<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 368W</td>
<td>Seminar in Humanistic Psychology</td>
<td>PSY 368W</td>
<td>Niemiec, C.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
</tr>
<tr>
<td>PSY 310W</td>
<td>Cross-listed:</td>
<td></td>
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<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 373</td>
<td>Exploring Research in Social Psychology I</td>
<td>PSY 373</td>
<td>Smetana, J.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
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<tr>
<td>CSP 351</td>
<td>Title: Research in Developmental Neuropsychology</td>
<td>Bennetto, L.</td>
<td></td>
<td>Permission of instructor required</td>
<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 377</td>
<td>Exploring Research in Family Psychology I</td>
<td>PSY 377</td>
<td>Smetana, J.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
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<td>PSY 351</td>
<td>Cross-listed:</td>
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<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 356</td>
<td>Research in Adolescent Development</td>
<td>PSY 377</td>
<td>Smetana, J.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
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<tr>
<td>CSP 356</td>
<td>Title: Research in Adolescent Development</td>
<td>Smetana, J.</td>
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<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 377</td>
<td>Exploring Research in Family Psychology I</td>
<td>PSY 377</td>
<td>Smetana, J.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
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<td>PSY 171 or 278</td>
<td>Prerequisites:</td>
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<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 356</td>
<td>Research in Adolescent Development</td>
<td>PSY 377</td>
<td>Davies, P.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
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<td>Clinical &amp; Social Sciences in Psychology</td>
<td>CSP 377</td>
<td>Exploring Research in Family Psychology I</td>
<td>PSY 377</td>
<td>Davies, P.</td>
<td>Permission of instructor required</td>
<td>Description: First-hand team experience with ongoing research in social psychology areas.</td>
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<tr>
<td>Description:</td>
<td>Provides guided, direct, research experiences in investigating the interplay between family relationships and children's social and emotional development. Emphasis is placed on gaining knowledge in translating theories (e.g., family systems theory) into empirically testable hypotheses and designing research methods and techniques to test predictions.</td>
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<td>Department:</td>
<td>Clinical &amp; Social Sciences in Psychology</td>
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<tr>
<td>Course:</td>
<td>CSP 383</td>
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<tr>
<td>Title:</td>
<td>Moral Development</td>
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<td>Cross-listed:</td>
<td>PSY 383</td>
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<td>Instructor:</td>
<td>Smetana, J.</td>
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<tr>
<td>Prerequisites:</td>
<td>CSP/PSY 271 Social &amp; Emotional Development</td>
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<td>Description:</td>
<td>This seminar focuses on the psychological study of moral development. Different theoretical approaches to morality and related empirical research will be discussed. The primary focus is from a developmental psychology perspective, but philosophical and educational issues also will be considered.</td>
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**Computer Science**

| Department: | Computer Science |
| Course: | CSC 108 |
| Title: | Introduction to Computers |
| Instructor: | Arnold, K. |
| Prerequisites: | Not open to officially declared CSC Majors. |
| Description: | A practical introduction to computing for students in the humanities, social sciences, and business. Topics to be covered include stand-alone applications (word processing, spreadsheets, databases); Internet tools (web browsers, e-mail, file transfer, web page creation); basic computer technology (how computers work, how they are programmed, what their limitations are); and broader social issues (technological trends, computer ethics, the impact of computing on society). Labs required. Weekly assignments. |

| Department: | Computer Science |
| Course: | CSC 131 |
| Title: | Recreational Graphics I |
| Instructor: | Pawlicki, T. |
| Class Size: | 20 |
| Prerequisites: | None |
| Description: | A hands-on introduction to 3D computer graphics and animation techniques taught from a user point of view using the BLENDER modeling system. Topics include 3D modeling, animation, and simulation. Assessment based on projects. No written exams. No previous programming or graphics experience required. |

| Department: | Computer Science |
| Course: | CSC 161 |
| Title: | The Art of Programming |
| Instructor: | Pawlicki, T. |
| Class Size: | 25-30 |
| Prerequisites: | None |
| Description: | Organized thinking, creative problem solving, and the precise description of solutions are valuable skills in academia and life. The formulation and solution of problems using computers is increasingly important in all artistic and scholarly fields. We introduce core concepts and techniques of programming as a way to develop these skills, as basis for further CS study, and for application to other fields. Lab required. |

| Department: | Computer Science |
| Course: | CSC 171 |
| Title: | The Science of Programming |
| Instructor: | Pawlicki, T. |
| Class Size: | 75 |
| Prerequisites: | None |
| Description: | Discovering, formulating, and exploiting the structure of problems to aid in their solution by computer. An introduction to algorithmic problem solving and computer programming in JAVA. This is the first course in the BS sequence. Lab required. |

| Department: | Computer Science |
| Course: | CSC 172 |
| Title: | Computation & Formal Systems |
| Instructor: | Brown, C. |
| Class Size: | 50 |
| Prerequisites: | CSC 171 |
| Description: | We investigate several formal systems influential in computer science, and also some of their applications (e.g. inspiring and providing the foundation for a computer programming style, or providing the basis for solving important practical problems like communications protocols, compiling, systems analysis, graphics ...) In more detail, we study: propositional and predicate Logic and applications like the Prolog language and circuit design; formal languages and automata theory (FLAT) and applications |
like scanners and parsers, using the C Language; lambda calculus and the Scheme language with an AI application; matrices and the Matlab language, with applications in robotics or graphics.

Department: Computer Science
Course: CSC 190C
Title: Explorations in Robotics
Instructor: Koomen
Class Size: 20
Prerequisites: none
Description: This course focuses on computer control of small robots through a series of hands-on technical challenges. The emphasis is on creative problem solving and software rather than hardware. The course provides an introduction to computer programming. No prerequisites or prior programming experience is required. A separate course will be offered for more advanced students in the spring.

Department: Computer Science
Course: CSC 190A
Title: Creative Computing
Instructor: Nelson, R.
Class Size: 20
Prerequisites: none
Description: Quick! How much would a tunnel under Lake Ontario cost? How many people probably touched that orange you just bought at Wegmans? Can the military’s satellites really read your license plate from orbit? Explores the creative use computational mechanisms and information sources to obtain rough estimates and feasibility analyses for interesting questions and practical problems: looks at the technological basis of the art of measurement.

Department: Computer Science
Course: CSC 244
Title: Logical Foundations of Artificial Intelligence
Instructor: Schubert, L.
Class Size: 30
Prerequisites: CSC 173 & CSC 242
Description: An introduction to the logical foundations of AI, including first-order logic, search, knowledge representation and planning. Meets jointly with CSC 444, a graduate-level course that requires additional readings and assignments, including a significant project or essay.

Department: Computer Science
Course: CSC 254
Title: Programming Language Design & Implementation
Instructor: Scott, M.
Class Size: 30
Prerequisites: CSC 173; CSC 252 recommended

Department: Computer Science
Course: CSC 256
Title: Operating Systems
Instructor: Dwarkadas, S.
Prerequisites: CSC 252
Coursework: Course projects include the modification and enhancement of a small operating system.
Description: Principles of operating system design, explored within the practical context of traditional, embedded, distributed, and real-time operating systems. Topics include device management, process management, scheduling, synchronization principles, memory management and virtual memory, file management and remote files, protection and security, fault tolerance, networks, and distributed computing. Students taking this course at the 400 level will be required to complete additional readings and/or assignments.

Department: Computer Science
Course: CSC 257
Title: Computer Networks
Cross-listed: CSC 456
Instructor: Sengupta, A.
Prerequisites: CSC 252
Coursework: Course projects include assignments in several languages and the modification and enhancement of a working compiler.
Description: Design and implementation of programming languages, with an emphasis on imperative languages and on implementation tradeoffs. In-depth examination of "how programming languages work." Topics include fundamental language concepts (names, value types, abstract flow); compilation and interpretation (syntactic and semantic analysis, code generation and optimization); major language paradigms (imperative, object-oriented, functional, logic-based, concurrent). Course projects include assignments in several different languages, with an emphasis on compilation issues.

Department: Computer Science
Course: CSC 460
Title: Logical Foundations of Artificial Intelligence
Cross-listed: CSC 444
Instructor: Schubert, L.
Prerequisites: CSC 173 & CSC 242
Description: An introduction to the logical foundations of AI, including first-order logic, search, knowledge representation and planning. Meets jointly with CSC 444, a graduate-level course that requires additional readings and assignments, including a significant project or essay.

Department: Computer Science
Course: CSC 257
Title: Computer Networks
Cross-listed: CSC 456
Instructor: Sengupta, A.
Prerequisites: CSC 252
Coursework: Course projects include the modification and enhancement of a small operating system.
Description: Principles of operating system design, explored within the practical context of traditional, embedded, distributed, and real-time operating systems. Topics include device management, process management, scheduling, synchronization principles, memory management and virtual memory, file management and remote files, protection and security, fault tolerance, networks, and distributed computing. Students taking this course at the 400 level will be required to complete additional readings and/or assignments.

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

Department: Computer Science
Course: CSC 260
Title: Topics In Natural Dialog Systems
Cross-listed: CSC 460
Instructor: Scott, M.
Prerequisites: CSC 173; CSC 252 recommended
Coursework: Course projects include assignments in several languages and the modification and enhancement of a working compiler.
Description: Design and implementation of programming languages, with an emphasis on imperative languages and on implementation tradeoffs. In-depth examination of "how programming languages work." Topics include fundamental language concepts (names, values, types, abstraction, control flow); compilation and interpretation (syntactic and semantic analysis, code generation and optimization); major language paradigms (imperative, object-oriented, functional, logic-based, concurrent). Course projects include assignments in several different languages, with an emphasis on compilation issues.
Instructor: Allen, J.
Class Size: 10-15
Prerequisites: CSC 244 and CSC 247
Description: This course will examine recent research in computational linguistics and artificial intelligence on natural language dialog systems. Students will take turns leading the discussion of current research papers. Undergraduates taking the course for credit will also be required to prepare a written review of one of the papers. It may be repeated for credit with permission of the instructor. Crosslisted with CSC 460. Graduates taking the course may have additional readings or assignments.

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

Department: Computer Science
Course: CSC 286
Title: Computational Complexity
Cross-listed: CSC 486
Instructor: Hemaspaandra, L
Class Size: 10
Prerequisites: CSC 280;
Description: This course continues the development of the theory of computing begun in CSC 280. Topics include the formal characterization of computational hardness; one-way functions and cryptography; the complexity hierarchy; and information theory.

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

Department: Computer Science
Course: CSC 290B
Title: Human Computer Interaction
Instructor: Neustaeder, Carman
Class Size: 20
Prerequisites: CSC 171 or permission of instructor. Students should be able to program in Java or C++.
Description: The design, implementation, and evaluation of human-computer interfaces. Topics include methods for interface design and evaluation, requirements gathering, usability heuristics, user interface inspections, usability studies, information visualization, and prototyping. These will be augmented with case studies of interface successes and failures. Students will apply the theoretical knowledge to assignments that involve portions of the design, implementation, and evaluation cycle.

Department: Dance
Course: DAN 101
Title: World Dance: Movement as Culture
Instructor: Bright Holland, A.
Class Size: 20
Description: This lecture-based course is an exploration of world cultures through dance. Students will expand their dance literacy through movement and embodied dance history. The course will therefore investigate the historical and anthropological significance of dance as well as provide an experience of the movement qualities of different world cultures. In this connection, students will examine dance as a kaleidoscopic reflection of humanity's basic instinct to communicate and, by extension, as an expression of world perspectives through movement. Specific attention to the cultures and dances of Japan, Nepal, India, Africa, North and South America and Europe will be investigated. The course will include movement classes, lectures, films, readings, discussions, guest artists, journal writing and a final project.

Department: Dance
Course: DAN 102
Title: Fundamentals of Movement A
Instructor: Pigno, N.
Class Size: 25
Description: This course will explore movement through the use of technique and improvisation. It emphasizes spontaneity, joy in moving, and self-awareness and is based on experiential anatomy and developmental movement patterns. It provides a strong foundation for further study in dance, theater, or sports, or can be used as an introduction to movement and body awareness. No previous dance training is required.
Department: Dance  
Course: DAN 103  
Title: Fundamentals of Movement B  
Instructor: Pigno, N.  
Class Size: 5  
Description: A continuation of Dance 102.

Department: Dance  
Course: DAN 104  
Title: Contact Improvisation I  
Instructor: Pigno, N.  
Class Size: 12  
Description: Contact improvisation is rooted in dance, the martial arts and studies of body development and awareness. It is a duet form where partners use weight, momentum, and inertia to move each other freely through space, finding support through skeletal structure rather than muscular effort. We will explore solo and duet skills such as rolling, falling, balance, counter-balance, jumping, weight sharing, spirals, and attuning to sensory input. Skill work will be combined with more open dancing in a supportive and focused environment. No previous dance training required.

Department: Dance  
Course: Dan 105  
Title: Creative Improvisation Through World Percussion  
Instructor: Holland, J.  
Class Size: 20  
Description: This class explores improvisation as a process and vehicle for personal expression, while investigating some of the rhythms and music of the world through hands-on performance, guided listening, readings and video presentations. The course provides an introduction to hand-drumming technique, with an emphasis on West African and Afro-Cuban percussion traditions. Following the spirit of these traditions, which celebrate community over individualism, practical facility with drumming language will be emphasized as a key to exploring improvisation. The course, in an overall sense, provides students with a first-hand experience of how music in general, and drumming in particular, joins people together in a shared experience of sound and vibration that is both ancient and contemporary.

Department: Dance  
Course: DAN 114  
Title: Introduction to Anusara Yoga  
Instructor: McCausland, J.  
Class Size: 20  
Restrictions: Not open to seniors  
Description: Anusara Yoga is a powerful system of hatha yoga that integrates a Tantric philosophy of intrinsic human goodness, Universal Principles of Alignment, and an artistic method of expressive movement. Students learn to honor their unique differences and limitations and through self-examination, discovery and receptivity, they open to new ideas about their responsibility and individual roles in a rapidly changing world community. This class unifies traditional Indian philosophy with practical implementation, classic yoga asana (poses) with a creative movement application emphasizing a celebration of the heart. Course requirements include assigned readings, journaling, discussion, participation in class and home practice.

Department: Dance  
Course: DAN 116  
Title: Introduction to Contemporary Ballet  
Instructor: World, C.  
Class Size: 20  
Description: Contemporary Ballet will approach ballet technique through the lens of somatic practices and will focus on giving the students a strong technical base. Phrasing, musicality and efficiency of movement will be emphasized. The class will provide a theoretical context, looking at ballet history and art and culture in society.

Department: Dance  
Course: DAN 120  
Title: Introduction to Aikido  
Instructor: Martini, R.  
Class Size: 20  
Restrictions: Not open to seniors  
Description: Aikido is a different kind of martial art. It doesn't rely on speed or strength, but on the development of a calm mind and a relaxed body. While the techniques you learn in Aikido are fascinating and effective, Aikido's real secret is this strong, dependable mind/body state. You will learn how to throw attackers effectively and almost effortlessly and how to fall safely. Aikido helps you to know yourself, to understand the natural rhythms of the human body, and to harness the true power of your mind and body for school, sports, dance, and all aspects of your life.

Department: Dance  
Course: DAN 171  
Title: Capoeira: Brazilian Art Movement  
Instructor: Russell, T.  
Class Size: 20  
Description: An art form of self-defense with strong aerobic and dance elements that brings together a harmony of forces. Through the study of the history, movements and culture behind Capoeira students will gain self-confidence, power, flexibility, endurance, and ultimately the tools towards self-discovery. Capoeira is within the reach of anyone regardless of age, sex, or athletic ability. The class will provide a theoretical context, looking at Capoeira history and culture in society.
experience. In keeping with its strong traditions, Capoeira balances the body, mind, and soul and enables one to break through limits, revitalizing oneself for everyday life.

Department: Dance
Course: DAN 174
Title: Voice and Movement for the Actor
Instructor: Ware, S., Browne, P.  
Class Size: 16
Description: Please see ENG 176 for course description

Department: Dance
Course: DAN 180
Title: Creative Middle Eastern Dance
Cross-listed: WST 177
Instructor: Scott, K.  
Class Size: 20
Description: Unveil the grace and beauty residing in the creative nature of Middle Eastern Dance. Improve strength, flexibility and self-awareness of the body. Class work will include meditative movement, dance technique, improvisation and rhythm identification through music and drumming. Specific dance forms such as Egyptian & Turkish Oriental, Tunisian, American Tribal and Folkloric/Bedouin styles of North Africa will be taught. Discourse and research topics will explore issues of gender, body image, historical perspectives and Orientalism.

Department: Dance
Course: DAN 181
Title: West African Dance Forms I
Cross-listed: AAS 254
Instructor: Martino, K.  
Class Size: 20
Description: Students will experience dancing African styles from the traditional cultures of Ghana and Guinea, West Africa. Technical emphasis will focus on foot patterns and placement, as well as developing the proper physical stance for African dance styles. Students will practice the dances and drum songs called Kpanlogo & Gota from Ghana, and Yankadi, Makru, & Kuku from Guinea, as well as various other selections. Outside work is required, including performance attendance, video viewing, article analysis, and journaling. Students can expect to gain a broadened perspective on contemporary West Africa and its cultural practices.

Department: Dance
Course: DAN 203
Title: Contact Improvisation II
Instructor: Pigno, N.  
Class Size: 10
Description: A continuation of DAN 202 that is taught concurrently with the introductory course. Students in DAN 203 will gain a deeper experiential and intellectual knowledge of contact by exploring issues further. Work includes both more advanced practice with other DAN 203 students, and the experience of helping teach the DAN 202 students the basic principles of contact.

Department: Dance
Course: DAN 204
Title: Contact Improvisation and Culture
Instructor: Pigno, N.  
Class Size: 10
Description: This course includes the studio work of the 2 credit contact improvisation course, and readings and written assignments that use ideas from contact improvisation to explore cultural issues.

Department: Dance
Course: DAN 208
Title: T’ai Chi and Chinese Thought
Instructor: Loughridge, R.  
Class Size: 18
Description: A study of Taijiquan, (also known as T’ai Chi Ch’uan or Tai Chi), a traditional Chinese martial art, and its intimate relationship to the cosmological, physiological, and philosophical conceptions found in the culture and thought from which it emerged. The course investigates both the traditional Chinese philosophy and movement aspects of Tai Chi in order to better understand the integration of human body, mind, and spirit. The Simplified 24-Step Taijiquan (Ershisi Shi Taijiquan) is learned, along with the foundation skills of the Eight Methods or Energies (Ba Fa), Reeling Silk (Chan Si Gong), Pushing Hands (Tui Shou), and Standing Pole meditation (Zhan Zhuang). Tai Chi is not only a valuable cross training exercise for the dancer, but also provides training for relaxed strength, whole body coordination, balance, centered alignment, timing, weight shifting and moving with fluid grace.

Department: Dance
Course: DAN 209
Title: Qi Gong: Chinese Way To Health
Instructor: Loughridge, R.  
Class Size: 18
Description: Qi Gong is a traditional Chinese internal art and an early forerunner of Tai Chi Ch’uan consisting of the practice (Gong) of sets of energy (Qi) exercises to build outer and inner strength. It is a self-healing modality designed to balance and harmonize the energy flow of the body, improve breathing and relax the mind for health, fitness, and longevity. This course is a study of both the philosophical and the movement aspects of Qi Gong in order to better understand and to attain the integration of body, mind,
and spirit. Topics will include traditional Chinese cultural concepts such as Yin-Yang theory, Five Element theory and Qi theory. Qi Gong provides the dancer with training for better breathing, body awareness, focus and concentration, mental presence, imagery, and cultivating and expressing energy.

Earth and Environmental Sciences

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

Department: Earth & Environmental Sciences
Course: EES 106
Title: Meteorites and Impact Craters
Instructor: Basu, A.
Class Size: 30
Prerequisites: None
Description: An introduction to the geology of the solar system from the perspectives of the earth sciences and the fascinating world of meteorites, asteroids, comets and impact craters. Special emphasis will be on the meteorite evidence for our understanding of planetary formation, role of impacts and mass extinctions, and the origin of the moon.

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

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

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

Department: Earth & Environmental Sciences
Course: EES 215
Title: Environmental and Applied Geophysics
Instructor: Ebinger, C.
Class Size: 20
Prerequisites: EES 101, MTH 142/162
Description: This course aims to image the internal structure of the oceans and continents using geophysical methods. Topics include physical processes occurring within Earth's plates, including solar and internal energy sources, movement of fluids in the oceans and plates. Geophysical methods used to detect these processes and to constrain physical properties, including seismic, electromagnetic, gravity as measured from surface, subsurface and satellites. Laboratory examples include environmental site remediation, hydrocarbon and mineral exploration, archeological remote sensing, tsunami detection, and groundwater exploration.

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

Department: Earth & Environmental Sciences
Course: EES 253
Title: Geodynamics
Cross-listed: EES 453
Instructor: Ebinger, C.
Class Size: 20
Prerequisites: EES 201 or permission of instructor
Description: Processes that create and modify Earth and the terrestrial planets will be examined using an 'earth engineering' approach. Emphasis will be placed on plate tectonics, with discussion of current research in mantle convection. The final third of the course will focus on active plate tectonic boundaries, and evidence for plate tectonics on Mars and Venus.

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

Department: Earth & Environmental Sciences
Course: EES 256
Title: Paleomagnetism and Global Plate Tectonics
Cross-listed: EES 456
Instructor: Tarduno, J.
Class Size: 20
Prerequisites: EES 101
Restrictions: Permission of instructor required
<table>
<thead>
<tr>
<th><strong>Description:</strong></th>
<th>The basic paleomagnetic methods used to determine absolute plate motions will be reviewed. Applications will include the potential cause and effect relationship between changes in absolute plate motions, mantle plume volcanism, orogeny and climate change.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 299</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Field Geology</td>
</tr>
<tr>
<td><strong>Instructor:</strong></td>
<td>Tarduno, J.</td>
</tr>
<tr>
<td><strong>Prerequisites:</strong></td>
<td>permission of instructor</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>This course covers the essential geologic and geophysical approaches to field stratigraphy, mapping and structural interpretation. The coursework is based on observations made during a substantial field excursion (usually 6 weeks long). Additional credit may be earned by laboratory analyses of samples collected during the field excursion.</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
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<tr>
<td><strong>Course:</strong></td>
<td>EES 299W</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Field Geology-Upper Level Writing Requirement</td>
</tr>
<tr>
<td><strong>Instructor:</strong></td>
<td>Tarduno, J.</td>
</tr>
<tr>
<td><strong>Prerequisites:</strong></td>
<td>See EES 299</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>See EES 299 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth and Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 352</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Issues in Environmental Science Group Leadership</td>
</tr>
<tr>
<td><strong>Cross-listed:</strong></td>
<td>CAS 352</td>
</tr>
<tr>
<td><strong>Instructor:</strong></td>
<td>Roth, V., Garzione, C.</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>Designed for Workshop leaders. This course offers training in group dynamics, learning theory and science pedagogy. The larger goals for this course are to develop leadership skills, to foster ongoing communication among faculty members and Workshop leaders, and to provide an environment for focused review of Workshop modules. This section of CAS/EES 352 will train undergraduate Workshop leaders for Introduction to Geological Sciences (EES 101)</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 390</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Supervised College Teaching</td>
</tr>
<tr>
<td><strong>Cross-listed:</strong></td>
<td>EES 490</td>
</tr>
<tr>
<td><strong>Instructor:</strong></td>
<td>Any Full-time Faculty Member within Department</td>
</tr>
<tr>
<td><strong>Restrictions:</strong></td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>Attendance of all primary class lectures. Assist in at least one laboratory session per week and general preparation for answering student questions. Preparation and delivery of at least one laboratory lecture and summary discussion following that lab. Assistance with the setup and dismantling of extensive lab displays of rocks, fossils and maps. Assistance with grading of lab quizzes and homework assignments, and in proctoring exams.</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 391</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Independent Study in Earth and Environmental Sciences-Upper Level Writing Requirement</td>
</tr>
<tr>
<td><strong>Instructor:</strong></td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td><strong>Prerequisites:</strong></td>
<td>See EES 391</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>See EES 391 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 393</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Senior Thesis</td>
</tr>
<tr>
<td><strong>Restrictions:</strong></td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>Students should seek out the faculty member he/she wishes to do a senior thesis with. Students should pick-up independent course forms from Lattimore 312. Course is suited to each students abilities. Questions should be directed to your major advisor.</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 393W</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Senior Thesis-Upper Level Writing Requirement</td>
</tr>
<tr>
<td><strong>Prerequisites:</strong></td>
<td>See EES 393</td>
</tr>
<tr>
<td><strong>Restrictions:</strong></td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>See EES 393 and EES Departmental Writing Plan. This section fulfills the upper level writing requirement.</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Earth &amp; Environmental Sciences</td>
</tr>
<tr>
<td><strong>Course:</strong></td>
<td>EES 394</td>
</tr>
<tr>
<td><strong>Title:</strong></td>
<td>Internship in Earth and Environmental Sciences</td>
</tr>
<tr>
<td><strong>Restrictions:</strong></td>
<td>Permission of instructor required</td>
</tr>
</tbody>
</table>
**Economics**

**Description:**
This course gives an overview of economics and provides a foundation for studying further in economics. We model how individuals make economic choices, e.g., what to buy, how much to work, how much to save, what occupation to pursue, how many children to have, etc. Secondly, we examine how all these individual choices come together. In particular, how does a market-oriented economy coordinate all these individual choices. The course explains the market forces of supply and demand and how they determine a good's price, who produces it, how it is produced, and who gets the good. We examine the role of international trade and the impact of government involvement in markets, such as imposing rent controls, taxing cigarettes, or outlawing child labor. We examine how markets deal with monopoly power or producers polluting; and we examine the ability of government intervention to lessen or worsen these problems. We see how a market economy rewards persons, how it can generate wealth and poverty, and study the outcome of government welfare policies. We also introduce a number of important issues in macroeconomics. These include the sources of economic growth and the impact of government spending, taxing, and borrowing on the performance of the aggregate economy. Eco 108 is preparation for subsequent economics courses. Completion of (or concurrent enrollment in) a course in calculus is recommended.

**Department:** Economics  
**Course:** ECO 108  
**Title:** Principles of Economics  
**Instructor:** Rizzo, M.  
**Class Size:** 200

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**Economics**

**Description:**
This course develops the basic tools of microeconomics: supply and demand, indifference curves and budget lines of the consumer, and firm cost curves.

**Department:** Economics  
**Course:** ECO 207  
**Title:** Intermediate Microeconomics  
**Instructor:** Landsburg, S., Bils, M., TBA  
**Class Size:** 100

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**Economics**

**Description:**
This 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 209  
**Title:** Intermediate Macroeconomics  
**Instructor:** Hawkins, W.  
**Class Size:** 125

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**Economics**

**Description:**
Students should contact their major advisor for details. Closure course for Environmental Studies majors (ESP) and Environmental Science majors (EVS).

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

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**Economics**

**Description:**
Please see EES 253 for the course description.

**Department:** Earth and Environmental Sciences  
**Course:** EES 453  
**Title:** Geodynamics  
**Instructor:** Ebinger, C.  
**Prerequisites:** EES 201 or permission of Instructor  
**Description:** Please see EES 253 for the course description.

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**Economics**

**Description:**
Please see EES 255 for the course description.

**Department:** Earth and Environmental Sciences  
**Course:** EES 455  
**Title:** Planetary Science: Geologic Evolution and Planetary Habitability  
**Instructor:** Tarduno, J.  
**Class Size:** 20  
**Prerequisites:** EES 101 or EES 201 strongly recommended  
**Coursework:** EES 455 will include an in-depth research project, designed by the student and professor involving the formation and early history of one of the planets or satellites in our solar system.  
**Description:** Please see EES 255 for the course description.

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**Economics**

**Description:**
Please see EES 256 for the course description.

**Department:** Earth and Environmental Sciences  
**Course:** EES 456  
**Title:** Paleomagnetism and Global Plate Tectonics  
**Instructor:** Tarduno, J.  
**Restrictions:** Permission of instructor required  
**Description:** See Description for EES 256
Department: Economics  
Course: ECO 209H  
Title: Honors Intermediate Macroeconomics  
Instructor: Chang, Y.  
Class Size: 25  
Prerequisites: Calculus, ECO 207  
Exams: 1 midterm, 1 final  
Description: Economic growth and business cycles are studied using formal models. Significant attention is also paid to economic data and the macroeconomic policy debate. In comparison to ECO 209, ECO 209H has more emphasis on analytical rigor.

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

Department: Economics  
Course: ECO 230  
Title: Economic Statistics  
Class Size: 75  
Prerequisites: Students should have taken or currently be taking Math 141 or higher.  
Exams: midterms, final  
Description: This course is an introduction to the probability and statistical theory underlying the estimation of parameters and testing of hypotheses in economics. Linear correlation and simple regression analysis are also be introduced. Students will use computers to analyze economic data.

Department: Economics  
Course: ECO 231W  
Title: Econometrics  
Instructor: TBA  
Class Size: 70  
Prerequisites: ECO 207; ECO 230 or STT 213 or MTH 203  
Description: This course covers the single and multiple linear regression model, the associated distribution theory, and testing procedures; specification errors; multicollinearity; corrections for heteroscedasticity and serial correlation; simultaneous equations; measurement error, dummy variables, discrete choice models; and other extensions as time permits. Students also apply techniques to a variety of data sets using computers. Applications of these techniques to various economic fields are emphasized.

Department: Economics  
Course: ECO 238  
Title: Environmental Economics  
Cross-listed: ECO 238W  
Instructor: Rizzo, M.  
Prerequisites: ECO 207  
Exams: 2 Mid-terms, Final  
Description: Beginning on New Years Day in 1970, the enactment of the National Environmental Policy Act ignited the passage of a wave of major environmental laws and policies, each with the intention of protecting and improving the quality of the environment, changing the way federal lands are managed, and imposing limits on private landowners. Since then, with few exceptions, the quality of the environment has improved dramatically. The air in almost every city is far cleaner today than in 1970 despite massive increases in the number of vehicles on the road; water quality is much improved; sewage is better treated and much hazardous waste has been removed; rivers are healthier; hundreds of plant and animal species are explicitly protected by federal statute; more land is forested today than at any time over the past century; and so on. In this course, we will explore the sources of improvements to, and degradation in, environmental conditions. In addition, we will explore the institutional framework that environmental policy has operated in during the past, as well as how institutions shape the type and effectiveness of environmental policy of the future. While we will examine ethical and popular considerations of the environment, the course will focus on the contributions of economic science to the environment. Scientific evidence often clashes with political, religious and other interests on environmental issues. For many, any goal short of perfection is unsatisfactory. For others perfection is not the desire, but neither is protection of the environment per se. Evidence of this abounds: current regulatory procedures for protecting the environment pay little attention to the environment, and lots of attention to production inputs; the process of protecting the environment seems to be more important than protecting the environment itself. But this course will emphasize that in environmental economics, just as in other areas of economics, it is necessary to balance competing interests there are more competing claims for en

Department: Economics  
Course: ECO 252  
Title: Economies & Societies of Latin America  
Cross-listed: AAS 252/HIS 203  
Instructor: Inikori, J.  
Class Size: 30
Description: Please see HIS 203 for the course description.

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

Department: Economics
Course: ECO 268
Title: Economics of Globalization
Cross-listed: ECO 268W
Instructor: Aguiar, M.
Class Size: 50
Prerequisites: ECO 207
Description: This course studies the economics of world integration. We will explore the arguments for and against opening an economy to international trade in goods and financial capital. We will specifically focus on the implications of openness for welfare, growth, volatility, and inequality. The course will include economic theory as well as several applications. Possible applications include the growth miracles of East Asia, India's recent transformation, emerging market crises of the 1990s, aid and development in Africa, and the impact of trade on wages in the United States. Students should be familiar with microeconomics at the level of Econ 207.

Department: Economics
Course: ECO 288
Title: Introduction to Game Theory
Cross-listed: PSC 288
Instructor: Barelli, P.
Prerequisites: ECO 207
Description: The course is an introduction to the application of econometric methods. It covers the basic tools of estimation, inference and forecast of cross-section, time-series and panel data models. The course emphasizes the intuitive understanding and practical application of these basic tools of econometric analysis.

Department: English
Course: ENG 101
Title: Maximum English
Instructor: Eaves, M.
Class Size: 40
Prerequisites: ECO 207
Description: Fall 2009. "English" is a little word for lots of things. Is it literature you want today, or creative writing? film? theater? journalism? debate? Maximum English introduces you to all these areas and to our unique resources for studying and enjoying them--the full range of "English" here at UR. So you'll learn the fundamentals of reading and viewing from the department's own creative writers, its literary and film critics and historians, and its theater directors. You'll enlarge the experience of reading literature and criticism by listening to writers read their own original work and then discussing it with them. You'll experience plays not only as written scripts but as living theatrical events by attending performances and talking to actors, directors, and designers about what they do to bring a play to the stage. You'll encounter works in different media, from the live human voice to printed books, from the stage to film and electronic hypermedia. Maximum English will launch you into real English--the new expanded version. Applicable English Clusters: Modern and
Contemporary Literature; Novels; Plays, Playwrights, and Theater; Poems, Poetry, and Poetics.

Department: English
Course: ENG 111
Title: Introduction to Shakespeare
Instructor: Guenther, G
Description: Fall 2009. This course will introduce you to the full range of Shakespeare's plays, including his comedies, tragedies, histories, and romances. We will pay attention to both dramatic language and historical context in order to read and analyze the plays with as much comprehension and pleasure as possible. Course requirements: attendance, two exams, two five-page papers.

Department: English
Course: ENG 113
Title: British Literature I
Instructor: Kegl, R
Description: Fall 2009. This course immerses students in the most challenging, influential, and engaging writings from the earlier periods of English literature. Our aim will be to enjoy and understand these writings in themselves, and then to see their relation to each other and to their larger historical context. Students should leave the course with some real affection for particular writings, and some assured sense of the contours and highlights of cultural history. Our emphasis will be on the careful appreciation of language and texture in representative texts and authors (including Chaucer, Spenser, Shakespeare, Donne, Jonson, Milton, Dryden, Swift, Pope and their contemporaries). Class will proceed by lecture and discussion. Applicable English Cluster: Great Books, Great Authors.

Department: English
Course: ENG 115
Title: Intro to American Literature
Instructor: Glover, J
Description: Fall 2009. This course is a survey of American literature from the colonial period to the present. It begins with early narratives of discovery and settlement, and stretches to include contemporary poetry and novels. Our aim will be to consider how literature and print have shaped America's struggles over democracy, race, gender, and religion. We will consider a wide range of authors, including Mary Rowlandson, Herman Melville, Mark Twain, Harriet Beecher Stowe, Robert Frost, and Toni Morrison. Alongside our discussion of literature, will also discuss the many forms of media that have shaped the American literary tradition, including sermons, songs, performances, and popular ballads.

Department: English
Course: ENG 116
Title: Introduction to African American Literature
Instructor: Tucker, J
Description: Fall 2009. This course surveys African-American literature of a variety of genres--poetry, drama, autobiography, fiction, and non-fiction essays--from the 18th Century to the 21st. The course interprets this tradition not only as the production of American writers of African descent, but also as a set works that display formal characteristics associated with black cultural traditions. Discussion topics include the meanings of race, the construction of black identity, and intra-racial differences of class, gender, and sexuality. Special attention will be paid to approaching literary texts from a variety of critical perspectives.

Department: English
Course: ENG 117
Title: Introduction to the Art of Film
Cross-listed: AH 136, FMS 132
Instructor: Middleton, J
Description: Fall 2009. As an introduction to the art of film, this course will present the concepts of film form, film aesthetics, and film style, while remaining attentive to the various ways in which cinema also involves an interaction with audiences and larger social structures. Throughout the course, we will closely examine the construction of a variety of film forms and styles including the classical Hollywood style, documentary, experimental films, and contemporary independent and global cinemas. We will pay particular attention to the construction of film images, systems of film editing, film sound, and the various ways in which film systems can be organized (narrative, non-narrative, genres, etc. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 120
Title: Introduction to Creative Writing
Instructor: Li, Stephanie
Restrictions: Permission of instructor required
Class Size: 15
Description: Fall 2009. This class provides an introduction to the writing of poetry and fiction. Students will experiment with different poetic and literary forms, and will engage in writing exercises to develop and refine their use of images, characters and descriptive language. We will begin by studying the basic components of poetry and the short story. The course will conclude with a
workshop in which every student will present material to be reviewed by the entire class.

<table>
<thead>
<tr>
<th>Department:</th>
<th>English</th>
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<tbody>
<tr>
<td>Course:</td>
<td>ENG 121</td>
</tr>
<tr>
<td>Title:</td>
<td>Creative Writing: Fiction</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Schottenfeld, S</td>
</tr>
<tr>
<td>Class Size:</td>
<td>15</td>
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<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
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<tr>
<td>Description:</td>
<td>Fall 2009. This course will concentrate on the craft of fiction through readings of published stories and exercises involving tone and voice, culminating in the writing of at least one short story.</td>
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</tbody>
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<thead>
<tr>
<th>Department:</th>
<th>English</th>
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<tbody>
<tr>
<td>Course:</td>
<td>ENG 122</td>
</tr>
<tr>
<td>Title:</td>
<td>Creative Writing: Poetry</td>
</tr>
<tr>
<td>Class Size:</td>
<td>15</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
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<tr>
<td>Description:</td>
<td>Fall 2009. This is an introductory course for students who have already begun to write some poetry on their own. Every week students' poems will be discussed in a workshop format. Selected works by contemporary poets (such as Plath, Walcott, Ginsberg, Ashbery, Rich, Heaney, and others) will provide an essential background for examining various approaches and techniques. Specific or &quot;open&quot; assignments will be given weekly. Permission of instructor required. Please submit 3-5 poems to the instructor, preferably before the first class, since space is limited. Applicable English Clusters: Poems, Poetry, and Poetics; Creative Writing.</td>
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<tr>
<th>Department:</th>
<th>English</th>
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<tbody>
<tr>
<td>Course:</td>
<td>ENG 123</td>
</tr>
<tr>
<td>Title:</td>
<td>Playwriting: Fall 09</td>
</tr>
<tr>
<td>Class Size:</td>
<td>15</td>
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<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
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<tr>
<td>Description:</td>
<td>Fall 2009. A course devoted to the understanding and execution of dramatic writing that is unique to the theatre. Students will analyze and discuss selected readings while writing an original one-act play to be completed by the end of the semester. Meets during one half of the semester only. Contact the Theatre Program at 275-4959 for details. Applicable English Cluster: Creative Writing.</td>
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<tr>
<th>Department:</th>
<th>English</th>
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<tr>
<td>Course:</td>
<td>ENG 131</td>
</tr>
<tr>
<td>Title:</td>
<td>Reporting and Writing the News</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Memmott, J</td>
</tr>
<tr>
<td>Class Size:</td>
<td>20</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Weekly quizzes</td>
</tr>
<tr>
<td>Description:</td>
<td>Fall 2009. Reporting and Writing the News introduces the student to journalistic writing and reporting techniques. Through a variety of classroom exercises, seven major writing assignments and a term paper, students learn to prepare accurate, balanced, complete coverage of a news topic. Students progress from single-source interviewing to news profiles, speech coverage, meetings, more complex formats, and finally, news analysis. Additional writing experience is gained through rewriting assignments, as directed by detailed editing comment. From lecture, textbooks, reading daily and periodical newspapers, the students learn to identify newsworthy topics and to develop appropriate interview techniques to produce clear, objective reports under specific deadlines. Applicable English Cluster: Media, Culture, and Communication.</td>
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<tr>
<th>Department:</th>
<th>English</th>
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<tr>
<td>Course:</td>
<td>ENG 134</td>
</tr>
<tr>
<td>Title:</td>
<td>Public Speaking</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Smith, C</td>
</tr>
<tr>
<td>Class Size:</td>
<td>20</td>
</tr>
<tr>
<td>Coursework:</td>
<td>ENG 134 contains two quizzes, a final exam, and four speeches to be given by the student. Speeches include a tribute, persuasive, explanatory, and problem solving address. A number of impromptu addresses will also be given.</td>
</tr>
<tr>
<td>Description:</td>
<td>Fall 2009. Basic public speaking is the focus of this course. Emphasis is placed on researching speeches, using appropriate language and delivery, and listening critically to oral presentations. ENG 134 contains two quizzes, a final exam, and four speeches to be given by the student. The speeches include a tribute, persuasive, explanatory, and problem solving address. Applicable English Cluster: Media, Culture, and Communication.</td>
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<tr>
<th>Department:</th>
<th>English</th>
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<tr>
<td>Course:</td>
<td>ENG 135</td>
</tr>
<tr>
<td>Title:</td>
<td>Debate</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Johnson, K</td>
</tr>
<tr>
<td>Class Size:</td>
<td>25</td>
</tr>
<tr>
<td>Description:</td>
<td>Fall 2009. The purpose of this course is to give students an appreciation for and knowledge of critical thinking and reasoned decision-making through argumentation. Students will research both sides of a topic, write argument briefs, and participate in formal and informal debates. Students will also be exposed to the major paradigms used in judging debates. Applicable English Cluster: Media, Culture, and Communication.</td>
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<tr>
<th>Department:</th>
<th>English</th>
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<tr>
<td>Course:</td>
<td>ENG 161</td>
</tr>
<tr>
<td>Title:</td>
<td>Introductory Video and Sound</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>FMS 161; SA 161</td>
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</tbody>
</table>
**Course:** ENG 170  
**Title:** Technical Theater: Fall 09  
**Instructor:** Rice, G  
**Class Size:** 15  
**Description:** Fall 2009. An introduction to Technical Theatre and Theatre Technology: its materials, techniques and equipment. Focuses on the principles and practice of set construction; the nature and use of electricity; lighting and sound equipment; tools; production organization and management; and the importance of safety in all areas. Course will include both lecture and significant hands-on experience. Practical laboratory work in association with the productions of the International Theatre Program is included.

**Department:** English  
**Course:** ENG 172  
**Title:** Intro to Stage Lighting & Sound  
**Instructor:** Rice, G  
**Class Size:** 15  
**Description:** Fall 2009. An introductory/intermediate course on the materials, techniques and equipment involved in Sound and Lighting as used in theatrical applications. Focuses on the principals and practices of implementation and design. Safety practices will be taught. Course will include lecture, one-on-one tutorials, and hands-on practical laboratory work in association with a production of the International Theatre Program.

**Course:** ENG 176  
**Title:** Voice and Movement for the Actor: Fall 09  
**Instructor:** Ware, S; Browne, P  
**Class Size:** 16  
**Description:** Fall 2009. An introductory course on voice and movement for the actor, concentrating on the ability of the actor to maximize the use of the body and voice to express emotion and character.

**Department:** English  
**Course:** ENG 178  
**Title:** Directing  
**Instructor:** Maister, N  
**Class Size:** 15  
**Description:** Fall 2009. This is an introductory course focusing on directing for the theatre. The class will guide students through the directing process: from textual interpretation and production conceptualization, through staging and visualization, to working with actors. Please note: students taking Directing are also required to register for Directing Lab.

**Course:** ENG 179  
**Title:** Acting Techniques: Fall 09  
**Instructor:** Greer, S  
**Class Size:** 16  
**Description:** Fall 2009. Acting Technique: Fall 09 focuses on developing the students ability to analyze texts from a performers viewpoint; on heightening the actors sensitivity to language; on developing the actors physical and vocal technique; on building awareness of character and characterization; and on engaging and actively developing creativity and imagination. This is done by constant investigation, rehearsal, and presentation of assorted texts ranging from poetry to contemporary and classical scenes and monologues. Attendance at all classes is mandatory. No prior acting experience or classwork is required. Please note: students taking Acting Techniques: Fall 09 are also required to register for Fall Acting Lab.

**Course:** ENG 180  
**Title:** Intro to Old English Language and Literature  
**Instructor:** Higley, S  
**Cross-listed:** ENG 401  
**Class Size:** 15  
**Description:** Fall 2009. "To men I shall speak wisdom where none speak a word on earth; though sons of land-dwellers now eagerly seek after my tracks, I sometimes hide my path from everyone." Riddle 94 of the Exeter Book. In following the dark tracks of the Old English writers who left their almost unrecognizable English words on tenth-century vellum, we will have to acquire skills and tools. This course will ask you to learn the Old English language, but translations will also be provided for most of the texts as a guide only. With these in hand, we will explore the dark world of Anglo-Saxon writing for its illuminations, but our emphasis will be on loss, love, hardship, riddle, wisdom, and the spiritual and magical powers of writing in a culture that stood on the cusp of orality and literacy. Texts: King Alfred, The Chronicles, Aelfric's "Preface to Genesis," "The Wanderer," "The Seafarer," "The Wife's Lament," "Wulf and Eadwacer," "Gnomes," "Enigmas," "The Battle of Maldon." Applicable English Cluster: Medieval Studies. Fulfills the pre-1800 requirement for the major.

**Course:** ENG 201  
**Title:** Early English Drama  
**Instructor:** Peck, R.  
**Cross-listed:** ENG 403  
**Class Size:** 15  
**Description:** Fall 2009. To men I shall speak wisdom where none speak a word on earth; though sons of land-dwellers now eagerly seek after my tracks, I sometimes hide my path from everyone. Riddle 94 of the Exeter Book. In following the dark tracks of the Old English writers who left their almost unrecognizable English words on tenth-century vellum, we will have to acquire skills and tools. This course will ask you to learn the Old English language, but translations will also be provided for most of the texts as a guide only. With these in hand, we will explore the dark world of Anglo-Saxon writing for its illuminations, but our emphasis will be on loss, love, hardship, riddle, wisdom, and the spiritual and magical powers of writing in a culture that stood on the cusp of orality and literacy. Texts: King Alfred, The Chronicles, Aelfric's "Preface to Genesis," "The Wanderer," "The Seafarer," "The Wife's Lament," "Wulf and Eadwacer," "Gnomes," "Enigmas," "The Battle of Maldon." Applicable English Cluster: Medieval Studies. Fulfills the pre-1800 requirement for the major.
Fall 2009. Early English Drama is essentially a course in religious comedy - bawdy, pious, threatening, salvific comedy. The course begins with a brief look at Christian liturgical drama, then traces the origins of vernacular folk drama through the mystery cycles to the humanistic writers and Tudor drama of the 16th century. We will read two Corpus Christi cycles (the York and N-Town plays), along with excerpts from others (Chester and Towneley, particularly the Wakefield master), three saints and conversion plays, a couple of morality plays, some examples of humanistic drama, and conclude with Marlowe's Dr. Faustus and/or Shakespeare's Titus Andronicus. We will examine the plays in terms of their stagecraft, their message and performative values, their comic genius, and their cultural significance. Texts: David Bevington, Medieval Drama; Clifford Davidson, York Corpus Christi Plays; Douglas Sugarno, The N-Town Plays; Richard Emmerson, Approaches to Teaching Medieval English Drama; Russell Peck, Heroic Women from the Old Testament in Middle English Verse; Saint Bonaventura, The Mind's Journey to God; and the Middle English Pearl. Applicable English Clusters: Medieval Studies; Plays, Playwrights, and Theater. May be used to fulfill the pre-1800 requirement for the English major.

Department: English
Course: ENG 206
Title: Dante's Divine Comedy I
Cross-listed: CLT 116Q, CLT 253C; IT 195Q, IT 220
Instructor: Stocchi-Perucchio
Description: Fall 2009. See course description for IT 220. This course WILL NOT fulfill the pre-1800 requirement for the English major.

Department: English
Course: ENG 210
Title: Shakespeare
Instructor: Gross, K
Description: Fall 2009. The course will explore the full range of Shakespeare's theater, including history plays, comedy, tragedy, and romance. We will be approaching the plays from many angles, looking at their extravagant language, the movement and structure of their plots, their invention of complex, conflicted human psyches, their self-conscious theatricality, as well as their ways of joining together play and earnest, tragic and comic tonalities. Well be probing the plays fascination with madness and delusion, their use of ghosts, witchcraft, and magic, and their penetrating explorations of human history and politics. Lectures will consider Shakespeare both in his own time and in ours, in order to understand why his work still speaks to us so powerfully, why modern writers and directors often cannot get Shakespeare out of their heads. The reading list will include Romeo and Juliet, Richard II, Twelfth Night, The Merchant of Venice, Hamlet, Othello, King Lear, Coriolanus, Antony and Cleopatra, and The Winter's Tale. Course Work: two shorter and one longer essay and a final examination. Also fulfills pre-1800 requirement for the English major. Applicable English Clusters: Great Books, Great Authors; Plays, Playwrights, and Theater.

Department: English
Course: ENG 218
Title: Early American Literature
Cross-listed: ENG 418
Instructor: Glover, J
Description: Fall 2009. This course surveys the emergence of American literary culture, with a special emphasis on the relationship between print and other forms of media. We will consider a broad range of American writing from this period, from the jeremiads of English Puritan reformers to the literature of the American revolution. Our literary readings will range from sermons and captivity narratives to canonical classics like Franklins Autobiography, yet along the way, we will also consider a wide range of media, from epitaphs, broadsides, and songs to more ephemeral forms of communication like rumors and gossip, natural soundscapes, and animal noises. Topics of discussion will include oral culture, magic and sorcery, cross-cultural interaction, and political revolution.

Department: English
Course: ENG 222
Title: Nineteenth-Century British Novel
Cross-listed: ENG 422; WST 222
Instructor: Rajan, S
Description: Fall 2009. This course introduces students to some of the major novelists in nineteenth-century British literature. While the course provides broad coverage of the nineteenth-century British novel, our discussion of these select nineteenth-century novels will be guided by the theme of possession. What is the connection, this course asks, between marriage and romance and other forms of possession such as land, money, or things, in the nineteenth-century British novel? In addressing this question, we will discuss how narrative devices like the marriage-plot offer vehicles for novelists such as Jane Austen, Charlotte Bronte, Charles Dickens, and George Eliot to explore the linkages between romance, sexuality, property, and capitalism. While possession may be a major theme underlying the courses structure, we will also discuss other topics such as nationalism, the woman question and the problem of separate spheres, changes in class structure, and
British imperialism. In addition to addressing thematic and political issues, students will also have an opportunity to analyze the aesthetic dimensions of literary texts, paying attention to the techniques writers employ as they shape and experiment with forms of the novel.

### Studies in 19th Century Literature

**Department:** English  
**Course:** ENG 223  
**Title:** Studies in 19th Century Literature  
**Cross-listed:** ENG 423  
**Instructor:** Rajan, S  
**Description:** Fall 2009. The writings of Victorian novelists, essayists, and poets were animated by a shared set of political concerns—from the economic and environmental effects of industrialization and capitalism to the importance of nationalized education, women's rights, and imperialist expansion. Yet while the concerns that underpinned such writings were held in common, the form such writings took varied. This course examines the ways in which Victorian literature engages with the problem of "form" in its many guises. Specifically we will discuss how Victorians utilized a diverse range of literary forms from the political essay to novels and verse—to address contemporary debates on the formation of individual character and social reform. How does the novels exploration of character or the gendering of roles within the family, arrive at different conclusions than the political essay? Do poems necessarily become more based in narrative as they address similar political issues? What links, if any, do we find between literary form and social reform? To address the intersection of literary form with problems of social reform, we will read a wide variety of novelists, essayists, and poets from the Victorian period. Authors will include Charles Dickens, Elizabeth Gaskell, Elizabeth Barrett Browning, John Stuart Mill, Matthew Arnold, Thomas Carlyle, Oscar Wilde, George Eliot, Dante Gabriel Rossetti, and Alfred Lord Tennyson.

### American Moderns

**Department:** English  
**Course:** ENG 227  
**Title:** American Moderns  
**Cross-listed:** ENG 427  
**Instructor:** Grella, G  
**Restrictions:** Not open to freshmen  
**Description:** Fall 2009. The course covers the period roughly between World War I and World War II, dealing with the rich creativity we associate with Modernism. We will read and discuss such writers as Eliot, Faulkner, Hemingway, Dos Passos, Steinbeck, etc., studying not only the works but some of the major trends in art, culture, and knowledge that make the modern period so important and exciting. The method will be a combination of close reading, lecture, and discussion with (probably) one short paper and one longish paper. Not open to freshmen. Applicable English Clusters: American and African American Studies; Modern and Contemporary Literature.

### 20th Century Drama

**Department:** English  
**Course:** ENG 235  
**Title:** 20th Century Drama  
**Cross-listed:** ENG 435  
**Instructor:** Schottenfeld, S  

### Literary and Cultural Theory

**Department:** English  
**Course:** ENG 240  
**Title:** Literary and Cultural Theory  
**Cross-listed:** ENG 440  
**Instructor:** Guenther, G  
**Description:** Fall 2009. This course will study the major discourses of contemporary literary and cultural theory, including Marxism, psychoanalysis, deconstruction, gender and race studies, queer theory, new historicism, post-colonial criticism, and cultural studies. The goal will be not only to become conversant in these discourses, but also to explore a number of them in great depth. Course requirements: attendance and three five-page papers.

### Authors, Editors, and the Literary Marketplace

**Department:** English  
**Course:** ENG 242  
**Title:** Authors, Editors, and the Literary Marketplace
| Cross-listed: | Eng 442 |
| Instructor: | London, B |
| Description: | Fall 2009. What is an author? This course begins with the premise that the answer to this question is anything but self-evident. How does the literary ideal of the author as solitary genius -- as sole creator of a unique, original work of art -- correspond to the actual practices of ordinary writers? And, for that matter, does it correspond to the actual practice of even the great authors (Shakespeare, for example) it purportedly describes? Was such an ideal ever anything but a myth? What role do editors play in the practice of authorship? When does an editor count as a co-author? How do market factors and modes of publication affect what and how an author writes? How has our understanding of authorship changed in a world of virtual authors and virtual texts? How do we make sense of the journalistic scandals (involving authors, editors, and sources) that seem to have become so prevalent today? What happens when readers become authors, as in zines? For some time now, debates have raged, in both the academy and the popular media, about the nature and practice of authorship. Looking at examples drawn from both literature and journalism, this class will examine a number of sites of these debates: collaborative authorship; ghostwriting; editorial theory and practice; forgeries and hoaxes; plagiarism; cult or celebrity authorship; pulp fiction, best-sellerdom, and popular authorship; authorial practices in media other than print (film, electronic and digital media, etc.); vanity presses and on-demand publishing; copyright law; readership and reception. Students will have the opportunity to do original research and pursue case studies of their own choosing. |

| Department: | English |
| Course: | ENG 245 |
| Title: | The Outsider in Literature |
| Instructor: | Tucker, J |
| Description: | Fall 2009. This course uses literature to analyze social behavior and discursive practice, specifically processes of inclusion and exclusion. How communities are constructed, around what signs and sets of practices, and the role that exclusion plays in defining a community are topics we will explore. What does it mean to belong? To be excluded? And just how stable are these categories? Literature from a variety of traditions, historical periods, and genres will provide examples, case histories, and a vocabulary with which such social and discursive phenomena can be discussed. Texts include Beowulf, John Gardner's Grendel, Nathaniel Hawthorne's The Scarlet Letter, Seamus Heaney's The Cure at Troy, Amin Maalouf's In the Name of Identity, Toni Morrison's The Bluest Eye, Peter Shaffer's Equus, Virginia Woolf's A Room of Ones Own, Richard Wright's Black Boy, and more. |

| Department: | English |
| Course: | ENG 250 |
| Title: | Race in American Fiction - The Fiction of Race |
| Cross-listed: | ENG 450, WST 233, AAS 250 |
| Instructor: | Li, S |
| Description: | Fall 2009. Beginning with a discussion of what race can signify, this course will examine representations of racialized subjects in nineteenth- and twentieth-century American literature. We will focus on the relationship between racial constructions and the development of a national identity through a broad collection of works including novels, memoirs, essays, films and documents issued by the U.S. government. Students will explore the nature of racialized identity, the possibilities of passing and hybridity, definitions of citizenship, the relationship between class and race, opposing constructions of whiteness and blackness and the browning of America. We will conclude the course by expanding our discussion of race to include other forms of social difference, including those of language, culture, religious practice, education and generational values to understand how race operates beyond simplistic designations of color. |

| Department: | English |
| Course: | ENG 252 |
| Title: | Theater in England |
| Cross-listed: | ENG 452 |
| Instructor: | Peck, R |
| Class Size: | 20 |
| Restrictions: | Permission of instructor required |
| Description: | Fall 2009. English 252: Theater in England will be conducted in London from Tuesday, December 29, 200, through Saturday, January 9, 2010. Students should arrive in London no later than the evening of December 28. They may return on Sunday, January 10. We will see approximately 15 plays. We will not know what the full slate for the coming year will be until next November, but you can be certain that we will be seeing the best of what's available in the world's theater Mecca. Last year we saw Patrick Stewart and David Tennant in Hamlet, Derek Jacobi in Twelfth Night, Michael Gambon and David Bradley in No Man's Land, Ralph Fiennes and Clare Higgins in Oedipus, and such award winning productions as August: Osage County, Nick Stafford's War Horse, and La Cage aux Folies. We saw several world premieres such as David Hare's Gethsemane, Marina Carr's The Cordelia Dream, Zorro, the Musical, and Emma Rice's Don John, along with brilliant productions of Sondheim's A Little Night Music, T.S. Eliot's rarely performed Family Reunion, Neil... |
LaBute's In a Dark Dark House, and Stephen Daldry's Billy Elliot. Many in the group sat with the choir at Westminster Abbey to hear the Collegiate Singers perform Tomas Luis de Victoria's Missa 0 magnum mysterium. I have no reason to believe that this coming year will be any less rich than this past season. You can go online to see what we have done in the previous seventeen years. One thing for sure: We will see a terrific lot of theater and get to know London like an old friend. There will be ample time to visit such museums as the National Gallery, the old and new Tate Galleries, the Victoria and Albert Museum, the British Museum, the Royal Academy of Art, the Courtauld Institute, the London Museum, the Museum of Natural History, and historical sites like the Tower, Dickens' House, Parliament, and the Inns of Court. You can witness the changing of the guard at Buckingham Palace, explore Covent Garden, Camden Town, the antique shops of Islington or Portobello Market, and go to Harrods. An

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<tr>
<td>Course:</td>
<td>ENG 257</td>
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<td>Title:</td>
<td>Film History: 1959 - Present</td>
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<td>Cross-listed:</td>
<td>ENG 457, AH 253, CLT 218, FMS 249</td>
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<td>Instructor:</td>
<td>Niu, G</td>
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<td>Description:</td>
<td>Fall 2009. This course will explore the developments in world cinema - industrial, technological, social and political - in the second half of the sound period (1959 to the present). What brought about the collapse of the Hollywood studio system? What's new about the French New Wave? What do we mean by &quot;Third Cinema&quot;? How do different national cinemas influence each other? Requirements: mandatory weekly screenings, participation in class discussions, weekly film journals, and three take-home exams. Applicable English clusters: Modern and Contemporary Literature; Media, Culture, and Communication. Screening Time M 19:40.</td>
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<td>Course:</td>
<td>ENG 260</td>
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<tr>
<td>Title:</td>
<td>The Films of Martin Scorsese</td>
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<td>Cross-listed:</td>
<td>ENG 460, FMS 268</td>
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<td>Instructor:</td>
<td>Grella, G</td>
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<td>Restrictions:</td>
<td>Not open to freshmen</td>
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<td>Description:</td>
<td>Fall 2009. The course will deal with a selection of American films from the richest and possibly most important decade in the history of Hollywood. We will screen and discuss a variety of genres, from horror to documentary, concentrating on the films themselves, their place in the history of cinema, their relevance to social, political, and cultural issues. Supplementary reading will include texts on the period and on films of the time. Two or three papers will be required, along with a final examination. Possible films include &quot;King Kong,&quot; &quot;Frankenstein,&quot; &quot;Our Daily Bread,&quot; &quot;Public Enemy,&quot; &quot;Gold diggers of 1933,&quot; &quot;Dinner at Eight,&quot; etc. Applicable English Clusters: Media, Culture, and Communication; Modern and Contemporary Literature.</td>
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<td>Course:</td>
<td>ENG 267</td>
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<td>Title:</td>
<td>Changing Genres of Erotica</td>
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<td>Cross-listed:</td>
<td>ENG 467, WST 267</td>
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<td>Instructor:</td>
<td>Bleich, D</td>
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<td>Description:</td>
<td>Fall 2009. Recently the large-scale dissemination of erotic and pornographic literature and film has begun to affect the majority of the population in the West. There are two main issues in the course: 1) the history of the changing genres of erotica and the social changes taking place because of its wide dissemination; and 2) the proposition that if societies were different little harm and much good would come from the inclusion of erotica in peoples reading and viewing habits: erotic materials, by removing sex from the realm of the forbidden and viewing it as a species of everyday life, can contribute to the education of both sexes and people of all sexual tastes and preferences. Readings in the course will concentrate on classical, early modern, enlightenment, and contemporary erotica, with attention to the contemporary debates about pornography begun by the activism of MacKinnon and</td>
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Dworkin. Of particular interest in this critique is the claim that erotic materials encourage the practice of violence against women and children, and help to promote a culture dependent on the use of force and violence. The course reviews the current debate on pornography and sexually explicit language as a context for viewing the history of the more familiar erotic materials from classical times, to the Renaissance and 18th century, to D.H.Lawrence, and Erica Jong. Film showings Thursday evenings 7-10.

Department: English
Course: ENG 270
Title: Advanced Technical Theatre: Fall 09
Instructor: Rice, G  
Class Size: 15
Description: Fall 2009. This course investigates technical theater beyond the realms of Eng 170 (Technical Theatre). It focuses on work related to the scenic design and technical production of the two Fall Theatre Program productions. Working in small seminars and one-on-one tutorials, the instructor will assist students in learning more in the chosen technical areas and about problem-solving scenic and technical questions raised by the set/s being built. Course work will consist of supervisory responsibilities, one major and several smaller research projects.

Department: English
Course: ENG 274
Title: Advanced Creative Writing: Creative Prose
Cross-listed: ENG 474
Instructor: Scott, J  
Class Size: 15
Restrictions: Permission of instructor required
Description: Fall 2009. This new workshop will offer students a chance to write creatively in the genres of fiction and creative nonfiction. As we explore the murky border that separates the two, well be looking for qualities that are shared by both genres, and well examine the ways their defining differences are reshaped in inventive prose. In particular, well focus on the imaginative representation of real places in fiction, travel literature, and autobiography. The reading list will include a diverse group of writers, including Thoreau, Barry Lopez, Bruce Chatwin, James Joyce, Isak Dinesen, Italo Calvino, and Annie Dillard. This course will fulfill the 200-level requirement for the Creative Writing major and minor and can be used for the Creative Writing cluster.

Department: English
Course: ENG 276
Title: Advanced Poetry Writing
Cross-listed: ENG 476
Instructor: Longenbach, J  
Class Size: 15
Prerequisites: ENG 122, or equivalent work
Restrictions: Permission of instructor required
Description: Fall 2009. Advanced creative writing workshop in poetry. Work by various contemporary poets will provide the framework for explorations into technique and poetic narrative. Students' poems will be discussed weekly. Students will be expected to do extensive reading and research on their own and to keep a poetic journal. Assignments will be given, but there is a lot of latitude for students who wish to design a poetic project or work on a series. Permission of instructor is required (submit 3-5 typed poems, preferably before the first class). Applicable English Cluster: Creative Writing.

Department: English
Course: ENG 285
Title: Advanced Writing and Peer Tutoring
Cross-listed: WRT 245
Instructor: Rossen-Knill, D  
Class Size: 15
Restrictions: Special application required
Description: Fall 2009. See WRT 245 for description.

Department: English
Course: ENG 286
Title: Presidential Rhetoric
Instructor: Smith, C  
Class Size: 30
Description: Fall 2009. "Presidential Rhetoric", taught by former Presidential speechwriter Curt Smith, helps students critically examine the public rhetoric and themes of the modern American presidency. Particular attention will be given to the symbolic nature of the office, focusing on the ability of 20th-century presidents to communicate via a variety of forums, including the press conference, inaugural and acceptance speeches, political speech, and prime-time television address. Mr. Smith will draw on many of his experiences in Washington and with ESPN/ABC Television to link the most powerful office in the world and today's dominant medium. Applicable English Cluster: Media, Culture, and Communication.

Department: English
Course: ENG 290
Title: Plays in Production: Fall 09
Instructor: Maister, Rice, Fish
Description: Fall 2009. Each student in Plays in Production participates fully in the exciting behind-the-scenes world of theatrical production. Students build sets, create and make props and costumes, hang
and rig lighting and sound equipment, and create and distribute publicity materials for the plays currently in production in Todd Theatre. The class comprises a once-weekly lecture and a series of practical labs. This 4.0-credit course meets for the entire semester. Applicable English Cluster: Plays, Playwrights, and Theater.

Department: English  
Course: ENG 292  
Title: Plays in Performance: The Illusion  
Instructor: Maister, N  
Restrictions: Permission of instructor required  
Description: Fall 2009. Plays in Performance is a class made up of actors, assistant directors and stage managers working on the current production in Todd Theatre. Actors are cast after auditioning at the beginning of each semester. Students wishing to stage manage should approach the director of the production either at the time of auditions or before the beginning of the play's rehearsal process. Although there is no written component for this course (the performance of the play constitutes a final "exam"), a significant time commitment is required of actors and stage managers, both on weekday nights and over weekends. This class meets during the first half of the semester. Permission of instructor required. Applicable English Cluster: Plays, Playwrights, and Theater.

Department: English  
Course: ENG 294  
Title: Plays in Performance: TBA  
Instructor: Fish  
Restrictions: Permission of instructor required  
Description: Fall 2009. Plays in Performance is a class made up of actors and stage managers working on the current production in Todd Theatre. Actors are cast after auditioning at the beginning of each semester. Students wishing to stage manage should approach the director of the production either at the time of auditions or before the beginning of the play's rehearsal process. Although there is no written component for this course (the performance of the play constitutes a final "exam"), a significant time commitment is required of actors and stage managers, both on weekday nights and over weekends. This class meets during the first half of the semester. Permission of instructor required. Applicable English Cluster: Plays, Playwrights, and Theater.

Instructor: Rice, G; Maister, N  
Description: Fall 2009. Students in Stage Management I and/or II (Fall/Spring) will get an in-depth introduction to and immersion in stage managing a theatrical production. In addition to class work covering all areas of management skills, safety procedures, technical knowledge and paperwork, students will be expected to serve as an assistant stage manager or production stage manager on one (or both) Theatre Program productions in their registered semester.

Department: English  
Course: ENG 298  
Title: Performance Lab: TBA  
Instructor: Fish  
Restrictions: Permission of instructor required  
Description: Fall 2009. 1.0 credit/Pass-Fail. This class is a lab tutorial for actors cast in productions in Todd Theatre. Working one-on-one with an acting and voice coach, students tackle specific technical challenges raised by their involvement in the specific theatrical work in production.

Department: English  
Course: ENG 306  
Title: Special Projects: Theatre  
Instructor: Maister, N  
Class Size: 15  
Description: Spring 2009. This is an independently designed course, focusing on specific theatre or theatre-related projects, and demanding significant skill application or acquisition, independent and self-motivated research, including advanced written work, if appropriate. Topics may include elements of theatre related to production, management and/or design.

Department: English  
Course: ENG 380  
Title: Popular Film Genre: The Horror Film  
Cross-listed: ENG 480, FMS 232  
Instructor: Middleton, J  
Class Size: 15  
Restrictions: Permission of instructor required  
Description: Fall 2009. RESEARCH SEMINAR. This course examines major critical issues surrounding the horror genre, through close study of Classical Hollywood, post-Classical, and international horror films, and readings in critical theory. Issues to be explored include boundary transgression and bodily abjection in the construction of the horror monster; gender, pregnancy, and the monstrous feminine; social Otherness (race, class, sexuality) as monstrosity; the figure of the serial killer and the shift from classic to modern horror; the grotesque and the blending of comedy and horror in the zombie film; international horror
As a research seminar, the course will involve the development of a substantial research project.

**Department:** English  
**Course:** ENG 380K  
**Title:** Robin Hood: Media Creature  
**Cross-listed:** ENG 480, FMS 365  
**Instructor:** Hahn, T  
**Class Size:** 18  
**Description:** Fall 2009. RESEARCH SEMINAR. This course, part of the Kauffman Entrepreneurial Program, will address the popularity of the outlaw hero Robin Hood across six centuries and through a variety of media, including oral stories; popular and art songs; manuscripts, broadsheets and ballads; chapbooks and tabloid "lives"; comics, serials, and children's literature; woodcuts, engravings, chromolithographs, and high-end illustrations; silent and sound film, animation, TV series, and video. The course will require shared readings (including writings on media theory and history), but much of the work will entail individual research that will be available to other class members through live discussion and through the computer and website that will constitute the "research lab." Students will be asked to investigate the ways in which Robin Hood reached various in different time periods audiences by examining and/or preparing facsimiles (hard copy, microfilm, digital) of early printed material, tracing out the print and reading history of texts and authors popular in their own time, or by uncovering the production and reception history of commercial films and TV movies and series. These projects will grow partly from students individual interests, and aim to lead to genuine expertise. Each member of the class will be expected to produce several finished projects over the course of the semester. The research, editing, and technological work of the course will proceed in a hands-on and cooperative way; besides the continuing opportunities to share one's specialized knowledge in class, students will ultimately have the chance to make their discoveries available to a wider audience through Robin Hood: A Digital Archive. The development of this website will potentially engage students in website design, market research (ie, who will come if we build this website? with what constituencies in mind should we design it?), and issues of property rights in the private and public domains. This process of research and investigation, of as
Fall 2009. The rehearsal of remembered tales, the recollection of past loves, battles, voyages, dreams, and even other poems these things have always been part of Western literary tradition. The muses are after all, mythically speaking, the daughters of Memory. Elegy, the poetic memorializing of the dead, has long been a central genre, and both epic poetry and romance often focus on the evocation of long past events. But the centrality of personal memory to poetry and fiction, and the probing of its vexed workings, is a peculiar aspect of modern literature after Romanticism, that is. Here entire poems, short and long, are built around the struggles between what Elizabeth Bishop calls "life, and the memory of it" The workings of memory and imagination are seen as more complexly implicated in each other; they tell us about our life in time, personal and collective. For some writers, the selves exploring the field of memory becomes simply the definition of literature itself. One important facet of this change involves poets probing of memories of childhood; it is a probing of personal and cultural origins, a way of measuring old powers that are lost, or that may survive in different forms. Here Romantic and post-Romantic writers have helped to transform our ideas of childhood itself, along with our ideas of time and innocence. They have also transformed our ideas of landscape, our ways of describing the physical places so often bound up with memory. In modern literature, the issue of memory is also inevitably bound up with the problem of forgetting, with the fact of past events or memories being made opaque, or getting buried. Hence we have many literary texts that offer themselves as strange mixtures of what is remembered and what forgotten. In such cases, as important as the agency of recollection may be a sense of some active agency of forgetting -- including what Sigmund Freud called "repression." The seminar will focus on a group of poets for whom the matter of memory is central, inc
<table>
<thead>
<tr>
<th>Department:</th>
<th>Film and Media Studies</th>
<th>Instructor:</th>
<th>Stocchi-Perucchio, D.</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>FMS 223</td>
<td>Exams:</td>
<td>midterm exam</td>
</tr>
<tr>
<td>Title:</td>
<td>The Social Issues of Media: Anthro Persp on Media in Global &amp; Local Contexts</td>
<td>Coursework:</td>
<td>Class presentations and short written assignments Term paper (seven to ten pages)</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ANT 225/AH 230</td>
<td>Description:</td>
<td>Please see IT 248 for the course description.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Kim, E.</td>
<td>Class Size:</td>
<td>20</td>
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<td>Description:</td>
<td>Please see ANT 225 for the course description.</td>
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<tr>
<th>Department:</th>
<th>Film and Media Studies</th>
<th>Instructor:</th>
<th>Creech, J.</th>
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<tbody>
<tr>
<td>Course:</td>
<td>FMS 232</td>
<td>Cross-listed:</td>
<td>GER 283/GER 483/CLT 212I/CLT 412I</td>
</tr>
<tr>
<td>Title:</td>
<td>Popular Film Genres: The Horror Film</td>
<td>Instructor:</td>
<td>Middleton, J.</td>
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<tr>
<td>Cross-listed:</td>
<td>ENG 259/ENG 459</td>
<td>Description:</td>
<td>Please see GER 283 for the course description.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Niu, G.</td>
<td>Prerequisites:</td>
<td>FMS131/ENG118 Introduction to Media Studies OR a similar film/media studies course</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Mandatory weekly screenings, participation in class discussions, weekly film journals, and three take-home exams.</td>
<td>Description:</td>
<td>Please see ENG 259 for the course description.</td>
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<td>Description:</td>
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<tr>
<th>Department:</th>
<th>Film and Media Studies</th>
<th>Instructor:</th>
<th>Willis, S.</th>
</tr>
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<tbody>
<tr>
<td>Course:</td>
<td>FMS 249</td>
<td>Cross-listed:</td>
<td>FR 283/FR 483/CLT 211D/CLT 411D</td>
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<tr>
<td>Title:</td>
<td>Film History: 1959-Present</td>
<td>Instructor:</td>
<td>Niu, G.</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ENG 256/ENG 456/AH 253</td>
<td>Description:</td>
<td>Please see AH 283 for the course description.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Grella, G.</td>
<td>Prerequisites:</td>
<td>FMS131/ENG118 Introduction to Media Studies OR a similar film/media studies course</td>
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<tr>
<td>Coursework:</td>
<td>Mandatory weekly screenings, participation in class discussions, weekly film journals, and three take-home exams.</td>
<td>Description:</td>
<td>Please see ENG 256 for the course description.</td>
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<tr>
<td>Description:</td>
<td>Please see ENG 256 for the course description.</td>
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<th>Department:</th>
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<tr>
<td>Course:</td>
<td>FMS 268</td>
<td>Cross-listed:</td>
<td>JPN 283/CLT 214A/CLT 414A</td>
</tr>
<tr>
<td>Title:</td>
<td>Studies in a Director - The Films of Martin Scorcese</td>
<td>Instructor:</td>
<td>Bernardi, J.</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ENG 260/ENG 460</td>
<td>Description:</td>
<td>Please see JPN 283 for the course description.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Grella, G.</td>
<td>Prerequisites:</td>
<td>FMS131/ENG118 Introduction to Media Studies OR a similar film/media studies course</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Not open to freshmen</td>
<td>Coursework:</td>
<td>Weekly outside screenings of films are required (but if you cannot attend the scheduled screenings you may watch the films on your own time through the Multimedia Center reserves). Students will be evaluated based on short and longer writing assignments.</td>
</tr>
<tr>
<td>Description:</td>
<td>The course work will include screenings of a dozen or so films, study of some relevant primary and secondary texts, class lecture and discussions, and papers of an appropriate number and length.</td>
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</tr>
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<td>Description:</td>
<td>The course will deal with a selection of films directed (and some also written) by the highly regarded contemporary director, Martin Scorsese. We will proceed in roughly chronological order, examining the growth and development of his career, his characteristic manner and matter, his successes and failures. We will also discuss the concept of the auteur as it applies to his work.</td>
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<tr>
<th>Department:</th>
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<th>Instructor:</th>
<th>Crimp, D.</th>
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<tr>
<td>Course:</td>
<td>FMS 285</td>
<td>Cross-listed:</td>
<td>CLT 214A/CLT 414A</td>
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<tr>
<td>Title:</td>
<td>Our Voyage to Italy</td>
<td>Cross-listed:</td>
<td>IT 248/CLT 213B</td>
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<td>Description:</td>
<td>Please see AH 311 for the course description.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Stocchi-Perucchio, D.</td>
<td>Restrictions:</td>
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<tr>
<td>Description:</td>
<td>Please see IT 248 for the course description.</td>
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<th>Department:</th>
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<th>Creech, J.</th>
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<tbody>
<tr>
<td>Course:</td>
<td>FMS 294</td>
<td>Cross-listed:</td>
<td>FR 283/FR 483/CLT 211D/CLT 411D</td>
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<tr>
<td>Title:</td>
<td>Studies in a National Cinema: France - Contemporary French Film</td>
<td>Instructor:</td>
<td>Willis, S.</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ENG 262/ENG 462</td>
<td>Description:</td>
<td>Please see AH 283 for the course description.</td>
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<tr>
<td>Instructor:</td>
<td>Creech, J.</td>
<td>Prerequisites:</td>
<td>FMS131/ENG118 Introduction to Media Studies OR a similar film/media studies course</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Not open to freshmen</td>
<td>Coursework:</td>
<td>Weekly outside screenings of films are required (but if you cannot attend the scheduled screenings you may watch the films on your own time through the Multimedia Center reserves). Students will be evaluated based on short and longer writing assignments.</td>
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<tr>
<td>Description:</td>
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<td>Description:</td>
<td>The course will deal with a selection of films directed (and some also written) by the highly regarded contemporary director, Martin Scorsese. We will proceed in roughly chronological order, examining the growth and development of his career, his characteristic manner and matter, his successes and failures. We will also discuss the concept of the auteur as it applies to his work.</td>
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<td>Description:</td>
<td>Please see ENG 262 for the course description.</td>
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<th>Instructor:</th>
<th>Bernardi, J.</th>
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<tr>
<td>Course:</td>
<td>FMS 297</td>
<td>Cross-listed:</td>
<td>JPN 283/CLT 214A/CLT 414A</td>
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<tr>
<td>Title:</td>
<td>Studies in a National Cinema: Japan - History of Japanese Cinema</td>
<td>Instructor:</td>
<td>Creech, J.</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>JPN 283/CLT 214A/CLT 414A</td>
<td>Description:</td>
<td>Please see JPN 283 for the course description.</td>
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<tr>
<td>Instructor:</td>
<td>Bernardi, J.</td>
<td>Prerequisites:</td>
<td>FMS131/ENG118 Introduction to Media Studies OR a similar film/media studies course</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Not open to freshmen</td>
<td>Coursework:</td>
<td>Weekly outside screenings of films are required (but if you cannot attend the scheduled screenings you may watch the films on your own time through the Multimedia Center reserves). Students will be evaluated based on short and longer writing assignments.</td>
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<td>Description:</td>
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<tr>
<td>Description:</td>
<td>The course will deal with a selection of films directed (and some also written) by the highly regarded contemporary director, Martin Scorsese. We will proceed in roughly chronological order, examining the growth and development of his career, his characteristic manner and matter, his successes and failures. We will also discuss the concept of the auteur as it applies to his work.</td>
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<tr>
<td>Description:</td>
<td>Please see JPN 283 for the course description.</td>
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<th>Department:</th>
<th>Film and Media Studies</th>
<th>Instructor:</th>
<th>Crimp, D.</th>
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<tbody>
<tr>
<td>Course:</td>
<td>FMS 308</td>
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<tr>
<td>Title:</td>
<td>Dance, Art, and Film</td>
<td>Cross-listed:</td>
<td>FMS 508/AH 311/AH 511</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>FMS 508/AH 311/AH 511</td>
<td>Instructor:</td>
<td>Crimp, D.</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Stocchi-Perucchio, D.</td>
<td>Restrictions:</td>
<td>Not open to freshmen</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see JPN 283 for the course description.</td>
<td>Description:</td>
<td>Please see AH 311 for the course description.</td>
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Department: Film and Media Studies
Course: FMS 365
Title: Robin Hood: Media Creature
Cross-listed: ENG 480
Instructor: Hahn, T.
Restrictions: Open only to graduate students in offering department
Description: This course, part of the Kauffman Entrepreneurial Program, will address the popularity of the outlaw hero Robin Hood across six centuries and through a variety of media, including oral stories; popular and art songs; manuscripts, broadsheets and ballads; chapbooks and tabloid "lives"; comics, serials, and children's literature; woodcuts, engravings, chromolithographs, and high-end illustrations; silent and sound film, animation, TV series, and video. The course will require shared readings (including writings on media theory and history), but much of the work will entail individual research that will be available to other class members through live discussion and through the computer and website that will constitute the "research lab." Students will be asked to investigate the ways in which Robin Hood reached various in different time periods audiences by examining and/or preparing facsimiles (hard copy, microfilm, digital) of early printed material, tracing out the print and reading history of texts and authors popular in their own time, or by uncovering the production and reception history of commercial films and TV movies and series. These projects will grow partly from students individual interests, and aim to lead to genuine expertise. Each member of the class will be expected to produce several finished projects over the course of the semester. The research, editing, and technological work of the course will proceed in a hands-on and cooperative way; besides the continuing opportunities to share ones specialized knowledge in class, students will ultimately have the chance to make their discoveries available to a wider audience through Robin Hood: A Digital Archive. The development of this website will potentially engage students in website design, market research (ie, who will come if we build this website? with what constituencies in mind should we design it?), and issues of property rights in the private and public domains. This process of research and investigation,

Restrictions: Open only to senior majors or by permission of instructor
Department: Film and Media Studies
Course: FMS 392
Title: Practicum
Restrictions: Open only to senior majors or by permission of instructor

Department: Film and Media Studies
Course: FMS 393
Title: Senior Project
Restrictions: Open only to senior majors or by permission of instructor

Department: Film and Media Studies
Course: FMS 394
Title: Internship

Department: Film and Media Studies
Course: FMS 390
Title: Supervised Teaching

Department: Health & Society
Course: HLS 301
Title: Senior Seminar
Instructor: Harper, D.
Prerequisites: Required course of seniors majoring in health and society.
Restrictions: Open only to senior majors or by permission of instructor
Exams: No exams.
Coursework: Methods of Instruction: Taught as a seminar. Discussion of topics in health and disease; three term papers, no exams

Restrictions: Open only to senior majors or by permission of instructor
Department: Health & Society
Course: HLS 301
Title: Senior Seminar
Instructor: Harper, D.
Prerequisites: Required course of seniors majoring in health and society.
Restrictions: Open only to senior majors or by permission of instructor
Exams: No exams.
Coursework: Methods of Instruction: Taught as a seminar. Discussion of topics in health and disease; three term papers, no exams
### Description:
This course will build on prior courses in health and society - focusing in part on those topics that students wish to pursue further. Topics will include the changing health care system of the United States, corruption in the health care industries, medical problems and controversies in health care research and health care delivery (Ug! - sounds like selling cars, but this term is used by many in the health and medical industries). Three or four books will be assigned. Examples: Marcia Angell, the Truth about Drug Companies; David Mechanic, Policy Challenges in Modern Health Care.

### History

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<tr>
<th>Department:</th>
<th>History</th>
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<tbody>
<tr>
<td>Course:</td>
<td>HIS 106</td>
</tr>
<tr>
<td>Title:</td>
<td>Colonial and Contemporary Africa</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>AAS 106; ANT 248</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Mandala, E.</td>
</tr>
<tr>
<td>Description:</td>
<td>This course uses film, literature, and historical studies to understand the transformation of African societies during the colonial era and its neocolonial aftermath. It maps out the forging of new national identities, creation of wage laborers, restructuring of rural communities, and changing power relations between women and men, the young and old. Students will also explore how African men and women, from their homes and workplaces, and as part of nationalist and national liberation movements during and after the Cold War, have sought to redefine their place in the global economy amidst new opportunities and challenges presented by environmental degradation, the HIV/AIDS pandemic, hunger, international debt, and China's growing thirst for the continents seemingly inexhaustible natural resources.</td>
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<tr>
<td>Course:</td>
<td>HIS 145</td>
</tr>
<tr>
<td>Title:</td>
<td>Early America, 1600-1800</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Jarvis, M.</td>
</tr>
<tr>
<td>Description:</td>
<td>This course examines European expansion into the New World from Columbus's first voyage through the aftermath of the American Revolution. Throughout the semester, we will situate colonial British America and the fledgling United States within a broader, contested, multi-national and multi-ethnic Atlantic World setting. We will first regionally survey Europe's American colonies, emphasizing how timing, geography, economic development, national background, and patterns of migration produced considerable variation within colonial societies. We will next topically focus on Euro-Indian encounters, slavery, cultural creolization, religion and warfare in order to compare the experiences of colonial Americans. We conclude by examining the political crises and multi-fronted clashes of American Revolution and the struggle to forge a new, viable nation in its wake.</td>
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<tr>
<td>Course:</td>
<td>HIS 120</td>
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<tr>
<td>Title:</td>
<td>Introduction to Historical Studies</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Classes will be a combination of lectures, discussions, demonstrations, and student projects.</td>
</tr>
<tr>
<td>Description:</td>
<td>This course is intended for students new to the study of history at the college level. It will explore what historians do, how they do it, and how students can hone their own skills. Among the topics to be explored are understanding the materials of history, a survey of approaches to the past, and the development of proper techniques.</td>
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<tbody>
<tr>
<td>Course:</td>
<td>HIS 121</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to History - Piracy</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Jarvis, M.</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Classes will be a combination of lectures, discussions, and student projects.</td>
</tr>
<tr>
<td>Description:</td>
<td>This course is intended for students new to the study of history at the college level. Focusing on the topic of piracy, we will explore what historians do, how they do it, and how students can hone their own skills. As we consider piracy in its legal, social, global, maritime, and media dimensions, we will gain an understanding of the historical evidence, survey different theoretical approaches, work with primary sources, and develop effective narrative and discursive strategies.</td>
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labor conflict, political turmoil and corruption, and World War, the course explores how Americans struggled to fashion a sense of the role government would play in affecting industrial life and how the United States would use its new power in the world.

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<tr>
<td>Course:</td>
<td>HIS 155</td>
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<tr>
<td>Title:</td>
<td>History of Russia to 1692</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>RST 155</td>
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<tr>
<td>Instructor:</td>
<td>Lenoe, M.</td>
</tr>
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<td>Description:</td>
<td>This course focuses on the history of Kievan Rus beginning with the official conversion to Byzantine Christianity (988), the period of Mongol rule over Russia, the rise of the city of Moscow to a dominant position among the Russian principalities, and Muscovite society, politics, and economics in the 1500s and 1600s. We will examine the origins of Russian serfdom and Russian autocracy, Muscovite relations with other societies, including England, the role of witches in Muscovite society, and many other topics. We will also be studying the history of the Rus as it intertwines with the history of two neighboring Slavic peoples, the Poles and Ukrainians.</td>
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<tbody>
<tr>
<td>Course:</td>
<td>HIS 165</td>
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<tr>
<td>Title:</td>
<td>African-American History I</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>AAS 141</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Hudson, L.</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Two class papers of 2-3 pages (30%); Mid-Term (10%); Term paper 6-8 pages (40%); and Take Home Final Exam (20%).</td>
</tr>
<tr>
<td>Description:</td>
<td>We will begin our survey of African-American life and culture in fifteenth-century Saharan Africa. After examining the primary features of pre-European African society we will assess the disruptions triggered by European arrival. A discussion of the &quot;Middle Passage&quot; -- the transportation of enslaved Africans to North America -- and the Africans' adjustment to their new environment will compose the first section of the course. We will then focus on the process of &quot;Americanization&quot; as the Africans became African-Americans. The struggle for freedom and citizenship will conclude our survey. The course readings will be selected from autobiographies by Africans and African-Americans, and some brief selections from secondary texts. Using the autobiographies as historical source material, we will examine the values and cultural practices of Africans in America, and the ways in which African-Americans adapted to and shaped American life and culture.</td>
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<tr>
<td>Course:</td>
<td>HIS 173</td>
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<tr>
<td>Title:</td>
<td>American Military History</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Pierce, M.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>40</td>
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<tr>
<td>Description:</td>
<td>American history has been largely shaped by wars. This course will survey the history of American wars; the military, naval, and civil institutions that have been created to serve the changing needs of national defense; and the citizen-soldiers who have preserved the liberty of the Republic.</td>
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<th>Department:</th>
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<tr>
<td>Course:</td>
<td>HIS 194Q</td>
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<tr>
<td>Title:</td>
<td>Crime and Punishment in European History</td>
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<tr>
<td>Instructor:</td>
<td>Bakhmetyeva, T.</td>
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<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
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<tr>
<td>Description:</td>
<td>What can crime - and the punishments associated with crime - teach us about society and people? How do people in various historical periods perceive crime and criminals? And how are these perceptions affected by the social, economic and political climate? What do criminal prosecutions reveal about social dynamics and tensions? These and other questions are at the core of this thematically organized course that investigates crime and criminal prosecutions as historical and social constructions. Students will explore and attempt to answer these questions - and learn to pose their own - by reading and analyzing primary sources about some of the most famous crimes (both real and imaginary) and trials since the Middle Ages and throughout the 20th century (such as trials for witchcraft and Jewish ritual murders, the trial of Marie-Anatoineette and the Dreyfus Affair, and political trials in the Soviet Union). With the help of the instructor, students will investigate topics of their own interest in a research paper.</td>
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<tr>
<td>Course:</td>
<td>HIS 196</td>
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<tr>
<td>Title:</td>
<td>Germany between East and West</td>
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<tr>
<td>Instructor:</td>
<td>Applegate, C</td>
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| Description:    | This seminar will examine the history of post-WWII Germany from the perspective of its unique geo-political position, stranded in the middle of the Cold War confrontation between capitalist west and communist east. Starting with the final years of the war and the joint effort of both eastern and western powers to destroy Hitler's Germany, we will continue through the period of Germany's division and re-unification after 1989, concluding with current controversies over the role Germany should take in international conflicts. We will consider, first, the political
dimensions of Germany's unique situation, and second, the
cultural responses and social consequences.
Course material will include novels, films, memoirs, and
historical accounts.

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

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

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

**Department:** History  
**Course:** HIS 215  
**Title:** The Enlightenment  
**Instructor:** Outram, D.
**Restrictions:** Not open to freshmen
**Description:** The Enlightenment - the structure of ideas typical of eighteenth century Europe and the Americas, shaped and was shaped by increasing globalization and the clash of cultures between whites and indigenous peoples. Explosive questioning of religion, political justice and gender were also the consequence of these global encounters. The course is taught through establishing close relationships to primary text.

**Department:** History  
**Course:** HIS 232  
**Title:** The French Revolutions  
**Instructor:** Outram, D.
**Restrictions:** Not open to freshmen
**Description:** The revolutions which took place in France and the rest of Europe in the 1780s and 1790s were brutal and explosive. They caused a discontinuity in time and the rhythms of ordinary life, but also produced ideas of government and the self which have cast a long shadow over today. Every social, economic and gender group was differently affected by what happened during this time of upheaval and chaos sparked by the collapse of the old monarchy. (Hence it makes some sense to talk about revolutions in the plural). Chairman Mao was once asked when he thought the French Revolution had ended 'It's too soon to tell' he replied. The course proceeds through jokes, close documentary analysis, lectures and projects, and a corresponding look at whether it is indeed too soon to tell if the revolutions are over.

**Department:** History  
**Course:** HIS 233  
**Title:** 19th Century European Thought  
**Instructor:** Applegate, C.
**Coursework:** Course requirements: class discussions, short assignments for class, three 5-7 page papers (two on the course readings; one biographical on one of the assigned writers).
**Description:** This course considers the development of European philosophical, political, religious, and aesthetic thought from the
late 18th century to the late 19th century. We will end on the eve of the period known as "fin-de-siecle," which denotes in intellectual history a turn away from the mainstream of rationalist thought. Readings consist entirely of primary texts and include works or excerpts of works by Kant, Wollstonecraft, Schiller, Goethe, Chateaubriand, de Stael, de Maistre, Schleiermacher, Hegel, Comte, Saint-Simon, Fourier, Bentham, Mill, Marx, Schopenhauer, Darwin, the early Nietzsche.

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

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

Department: History  
Course: HIS 279  
Title: Japan at War and After  
Instructor: Hauser, W.  
Coursework: Each student will write two short papers based on the assigned readings in the course and one final paper based on a topic selected in consultation with the instructor. The first two papers will be 5-8 pages in length, and the third 10-15

Description: The class will cover the period from 1937 to the 1960s. The focus will be Japan's participation in the Pacific War, the social and cultural impacts of the war, and the social and cultural transformation of Japan in the postwar era. Readings will include: Ienaga Saburo, THE PACIFIC WAR; John Dower, WAR WITHOUT MERCY and EMBRACING DEFEAT; Samuel Yamashita, LEAVES FROM AN AUTUMN OF EMERGENCIES; Ishikawa Tatsuz, SOLDIERS ALIVE; Dazai Osamu, THE SETTING SUN; Richard Minear, VICTORS JUSTICE; and other selections. Feature films on the war and the postwar period will also be extensively used in the course and will include: Mishima Yukio, dir. RITE OF LOVE AND DEATH; Kobayashi Masaki, dir. THE HUMAN CONDITION, Part II; Ichikawa Kon, FIRES ON THE PLAINS and HARP OF BURMA; Kurosawa Akira, STRAY DOG, IKIRU and DRUNKEN ANGEL; Shohei Imamura, BLACK RAIN, and Ozu Yasujiro, TOKYO STORY, and others, depending on availability.
War, including the conflict's impact on Soviet culture, society, daily life, and the economy.

Department: History  
Course: HIS 333W  
Title: U.S. Colloquium I  
Instructor: Slaughter, T.  
Restrictions: Permission of Department required  
Description: This colloquium introduces classic and contemporary literature on Europe and the Americas, and the trans-Atlantic connections of empire, ideas, culture, trade, economics, religion, and society. It considers war in its ideological, political, and social dimensions, the growth of a global market economy, the environment and disease, race, slavery and the abolition movement, and constitutionalism, among other themes. The temporal focus is principally 1650-1850.

Department: History  
Course: HIS 346W  
Title: South Africa since 1910  
Instructor: Mandala, E.  
Description: A three-part exploration of South Africa's history from the time of the country's unification in 1910 to the end of legal apartheid in 1994. The dispossession, industrial color bar, and urban segregation. The second section highlights African resistance in such forms as African independent church movements, political organizations, trade unionism, and the activism of black women and the youth. The third part reviews some of the major challenges facing the new South Africa, particularly poverty and the HIV/AIDS pandemic.

Department: History  
Course: HIS 350W  
Title: Topics in Medieval History - Chivalry  
Instructor: Kaeuper, R.  
Prerequisites: Ideally, some background in medieval history.  
Restrictions: Permission of instructor required for undergraduates  
Coursework: One or more seminar reports on reading, plus a research paper.  
Description: Modern popular ideas of chivalry distort the medieval reality considerably. We will try to understand the original ideals and practices through reading and discussing a combination of medieval chivalric literature and modern scholarly writing.

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

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

Department: History  
Course: HIS 371W  
Title: Environmental History  
Instructor: Weaver, S.  
Description: This course is an upper-level introduction to the recently burgeoning field of environmental history. Drawing on both old and new scholarship in the field, and on a variety of primary historical materials, we will study the many ways in which humans have influenced the environments around them and, in turn, how various natural environments have shaped and influenced human societies. Some background in modern history is strongly recommended. The course requirements include
weekly reading and discussion and a substantial primary research paper.

Department: History
Course: HIS 373W
Title: Sex and Gender in the American City
Cross-listed: HIS 477
Instructor: Wolcott, V.
Restrictions: Permission of instructor required for undergraduates
Exams: Midterm and Final Examination
Description: This course will explore the role of gender and sexuality in American cities from the nineteenth century to the present. Through intensive reading and a research paper we will explore how gender and sexuality shaped the urban environment in the arenas of labor, politics, everyday life, and the built environment. We will also examine how the cultures of American cities prescribed normative gender and sex roles on urban residents.

Department: History
Course: HIS 377W
Title: Topics in Early American History
Cross-listed: HIS 477
Instructor: Jarvis, M.
Restrictions: Permission of instructor required
Description: This seminar introduces students to recent scholarship in the study of early America. Topics and approaches may include slavery and the formation of African-American culture, Revolutionary resistance, Euro-Indian encounters, religion and witchcraft, micro-history, gender roles, warfare, and environmental history. Using selected monographs, we will not only examine various interpretations of past events, but also dissect texts to discern how historians use evidence from the past to construct historical narratives - how historians "make" history.

Department: History
Course: HIS 382W
Title: Topics in 20th Century American Cultural History
Cross-listed: HIS 482
Instructor: Borus, D.
Prerequisites: HIS 148 recommended.
Restrictions: Permission of instructor required for undergraduates
Description: This course concentrates on the cultural and intellectual ferment of the first twenty years of the twentieth century spurred by the growing acceptance of the idea that no single principle could account fully for diverse phenomena. In many fields of inquiry, the notion that there were many truths, many values, and many beauties challenged the way of the world. As a result, American cultural and intellectual life featured a sense that the world was not already made, that standards were not firm and fixed, that accepted hierarchies were not always valid, and that contingency and context mattered. Among the fields of inquiry we will address are popular culture, philosophy, political science, psychology, and anthropology.

Department: History
Course: HIS 405
Title: American Health Policy and Politics
Cross-listed: HIS 305W; 7PM 420
Instructor: Brown, T.
Description: Please see HIS 305W for the course description.

Department: History
Course: HIS 431
Title: The Soviet Union and the Cold War
Cross-listed: HIS 331W
Instructor: Lenoe, M.
Description: Please see HIS 331W for the course description.

Department: History
Course: HIS 446
Title: South Africa since 1910
Cross-listed: HIS 346W; AAS 446
Instructor: Mandala, E.
Description: Please see HIS 346W for the course description.

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

Department: History
Course: HIS 456
Title: The Atlantic Slave Trade and Africa, 1650-1850
Cross-listed: AAS 375W; ECO 385W; HIS 356/356W
Judaic Studies

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

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

Department: Judaic Studies
Course: JST 106
Title: Intro to Hebrew Bible
Cross-listed: Rel 101
Description: Please see Rel 101

Department: Judaic Studies
Course: JST 113
Title: History of Judaism
Cross-listed: REL 103
Instructor: A. Meredith
Coursework: Please see Rel 101
Description: Please see Rel 101

Department: Judaic Studies
Course: JST 220
Title: Jewish Women's Writings
Cross-listed: REL 220/WST 236
Instructor: Rubel, N.
Description: Please see REL 220 for the course description.

Linguistics

Department: Linguistics
Course: LIN 101
Title: People and Their Language
Instructor: Webb, B
Exams: Midterm, Final
Coursework: Weekly readings and assignments, term project.
Description: This introductory level course is designed for students who have no background in linguistics, with some new topics for students who do. The course addresses the basic question "What is
Language?” from a broad variety of perspectives including linguistics, sociolinguistics, historical linguistics, sign language linguistics and gesture study. We will consider questions such as: What elements are found in all human languages? Are they systematically organized or random? Are some languages/dialects better than others? What is the relationship between written and spoken language? How does manual gesture relate to spoken language, and to sign language? How do languages develop? Die? How are they related? In exploring these questions we will confront a variety of common misperceptions about language. Each lecture has reading assignments drawn from the textbook and published articles. Class discussion will be encouraged as much as possible. Part of Clusters S1LIN006, S1LIN002

Department: Linguistics
Course: LIN 103
Title: Language and Sexuality
Instructor: Runner, J.
Description: This course will investigate various aspects of language as used by members of sexual minority groups, focusing on language of and about gay men, lesbians, bisexuals and transgendered people, including "reclaimed epithets" (e.g., 'dyke' and 'queer'), gender vs. sexuality vs. sex, and the role of language in creating/maintaining sexual categories and identities Part of Cluster S1LIN006

Department: Linguistics
Course: LIN 110
Title: Introduction to Linguistic Analysis
Cross-listed: ANT 110C
Instructor: Gunlogson, C
Prerequisites: None
Description: This course investigates the structure of human language, covering the basic techniques and concepts in the subfields of contemporary linguistic analysis. The course emphasizes work in primary material and data analysis, and focuses on developing skills in data collection and defining relevant questions for the purpose of seeking evidence that will bear on resolving theoretical and empirical questions in analysis of language. Part of Clusters S1LIN004, S1LIN002, S1LIN007, S1LIN001, S1LIN005

Department: Linguistics
Course: LIN 205
Title: Historical Linguistics
Cross-listed: LIN 405

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

Department: Linguistics
Course: LIN 225
Title: Introduction to Semantic Analysis
Cross-listed: LIN 425
Instructor: Gunlogson, C
Prerequisites: None
Class Size: 30
Description: This course introduces students to the basic logical notation and techniques used in formal analysis of natural language meaning, primarily in terms of truth-conditions. We will discuss the basics of first-order logic and set theory, and begin to investigate how meanings represented in these terms correlate with the syntactic and lexical structures of sentences of natural language. Topics include such notions as negation, conjunction and disjunction, plurality, quantification, indexicality, entailment, implicature, and presupposition. Students of graduate standing or those with strong formal backgrounds should consider starting with LIN 265/465 instead, for which this course is ordinarily prerequisite. This course counts towards satisfying the core course requirement for majors. Part of Clusters S1LIN002, S1LIN004, L1LIN005

Department: Linguistics
Course: LIN 226
Title: Morphology
Cross-listed: LIN 426
**Mathematics**

**Department:** Mathematics  
**Course:** MTH 140A  
**Title:** Calculus With Foundations  
**Exams:** Two or three hourly exams and weekly quizzes.  
**Description:** A two-semester course integrating the learning of calculus with precalculus mathematics. It is intended for students who lack the algebra and trigonometry skills necessary to perform successfully in MTH 141. When followed by MTH 141A, MTH 140A and MTH 141A together will cover all the material in MTH 141, together with a thorough presentation of the standard 'precalculus' material. When taken alone, MTH 140A covers, in addition to precalculus material, the theory and techniques of differential calculus, but no material on the integral calculus.

**Department:** Mathematics  
**Course:** MTH 141  
**Title:** Calculus I  
**Coursework:** Homework and quizzes  
**Description:** Analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverses and composites. Their graphs, derivatives, and integrals. Mean value theorem, maxima and minima, curve plotting. The fundamental theorem of calculus, with geometric and physical applications. MTH 141, 142, and 143 is a three semester sequence that covers, at a slower pace, exactly the same material as the two semester sequence MTH 161 and 162.

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

**Department:** Mathematics  
**Course:** MTH 143  
**Title:** Calculus III  
**Prerequisites:** MTH 141, MTH 142  
**Exams:** Hourly exams and a final exam  
**Coursework:** Homework and quizzes  
**Description:** Textbook is a standard calculus text. This is the third semester of a three-semester calculus sequence. Topics include improper integrals, l'Hopital's rules, infinite sequences and series, Taylor's series, three-dimensional geometry and vector algebra, curves in space, partial derivatives. Weekly lists of exercises form the syllabus for the weekly quizzes.

**Department:** Mathematics  
**Course:** MTH 150  
**Title:** Discrete Mathematics  
**Instructor:** Ledoan, A.,
**Description:** Logic, functions, algorithms, mathematical reasoning, mathematical induction, recurrence relations, techniques of counting, equivalence relations, graphs, trees, as well as specific questions given by the "Towers of Hanoi", and Euler’s "7 bridges of Königsberg problem". Required for Computer Science majors.

**Department:** Mathematics  
**Course:** MTH 150A  
**Title:** Discrete Math Module for 171Q  
**Restrictions:** Permission of instructor required  
**Exams:** Final exam  
**Coursework:** WeBWork and online notes. Students may attend any lectures, recitations, or office hours available to MTH 150 students, but it is entirely optional for them to do so. (See MTH 150 for course time.) Grading will be Pass/Fail only.

**Description:** Passing the course will grant a waiver to the MTH 150 requirement for the Computer Science program, but does not fulfill any other requirements that MTH 150 might fulfill.

**Department:** Mathematics  
**Course:** MTH 161  
**Title:** Calculus IA  
**Exams:** Two or three hourly exams and a final exam  
**Coursework:** Lectures with assignments or problems to be discussed in weekly recitation sections. Quizzes given in recitations.

**Description:** This is an introductory calculus course, intended for students whose interests lie in the physical sciences and engineering. The course requires a thorough command of high school algebra and some knowledge of trigonometry. Topics include: analysis of the elementary real functions: algebraic, trigonometric, exponentials and their inverses and composites; their graphs, derivatives and integrals; Limits, l'Hopital's rules, Mean value theorem, maxima and minima, curve plotting. The fundamental theorem of calculus, with geometric and physical applications.

**Department:** Mathematics  
**Course:** MTH 162  
**Title:** Calculus IIA  
**Instructor:** Lavine, R., Ledoan, A.  
**Prerequisites:** MTH 161  
**Exams:** Hourly exams, final exam  
**Coursework:** Homework and quizzes

**Description:** This course is a continuation of MTH 161. It covers techniques of integration, improper integrals, applications of integration, parametric and polar equations, infinite series, Taylor's series, vectors in two and three dimensions, lines and planes, vector-valued functions, velocity and acceleration, arc length, curvature.

**Department:** Mathematics  
**Course:** MTH 163  
**Instructor:** Greenleaf, A.  
**Prerequisites:** MTH 143, MTH 162 or MTH 172.  
**Exams:** Two or three hourly exams and a final  
**Coursework:** Homework and weekly quizzes  
**Description:** This course concentrates on the foundations of the subject, emphasizing those techniques which are important in physics and engineering. The emphasis in this course, as in the other calculus courses, is on learning techniques for solving, or at least understanding, certain equations (which occur frequently in physics and engineering), rather than on the theoretical aspects of the subject. Topics covered: First order differential equations, linear equations, and systems with constant coefficients, solutions in series, phase plane analysis and stability.
Course: MTH 164  
Title: Multidimensional Calculus  
Prerequisites: MTH 143, MTH 162, or MTH 172.  
Exams: Two or three hourly exams and a final exam  
Coursework: Lectures, homework and quizzes  
Description: This course studies the calculus in more than one dimension. Topics include partial derivatives, multiple integrals, and the major theorems of Green, Gauss, and Stokes. NOTE: Either MTH 164 or MTH 163 can be taken after MTH 162 or MTH 143. The usual procedure would be to take MTH 164 followed by MTH 163. USUALLY MTH 164 (Multidimensional Calculus) is taken first since its subject matter is more closely related to MTH 162. However, some Engineering majors require MTH 163 (Differential Equations) to be completed by the end of the fall semester of the sophomore year.

Department: Mathematics  
Course: MTH 165  
Title: Linear Algebra with Differential Equations  
Prerequisites: MTH 143, 162, or MTH 172Q. However, MTH 164 is not a prerequisite for MTH 165.  
Exams: Two or three hourly exams and a final  
Description: An introduction to the basic concepts of linear algebra: matrices, determinants, vector spaces and linear transformations, as well as to ordinary differential equations with an emphasis on linear differential equations, second order equations with constant coefficients and systems of differential equations. Applications to physical, engineering, and life sciences. This course differs from MTH163 in that it has more material on linear algebra (including a discussion of eigenvalues), and the only differential equations covered are linear ones with constant coefficients, along with systems thereof. For many students, taking MTH165 will eliminate the need to take MTH235 (linear algebra). Topics covered: Elementary methods, linear equations, and systems with constant coefficients, solutions in series, special functions, phase plane analysis and stability, Laplace transform, extremal problems.

Department: Mathematics  
Course: MTH 163Q  
Title: Honors Calculus III  
Prerequisites: MTH 162  
Description: Elementary methods; linear equations of first order; linear equations and systems of higher order with constant coefficients. Oscillation theorems. Solutions in series, special functions; the Laplace transforms, existence and uniqueness theorems.

Department: Mathematics  
Course: MTH 171Q  
Title: Honors Calculus I  
Exams: Hourly exams and a final.  
Description: Students with strong mathematical ability should consider taking this sequence, which is an honors calculus sequence for talented students interested in mathematics. These courses teach calculus as an interesting subject in its own right and places an emphasis on theoretical understanding, as well as on mastering technical skills. Students completing this sequence successfully will earn 20 credits (5 credits per semester) and will have covered the material in MTH235. In addition it is possible to receive 4 credits for AP courses. Students completing the sequence will have completed all of the foundation requirements for a major or minor in mathematics. It is possible to switch from MTH171 sequence to the MTH161 sequence anytime in the first year without much trouble. It would be unusual to transfer from the MTH161 sequence to the MTH171 sequence.

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

Department: Mathematics  
Course: MTH 190  
Title: Topics in Problem Solving  
Prerequisites: None  
Description: This course is intended for students interested in developing problem solving skills in Mathematics. This course will also prepare the students for college-level mathematical competitions (e.g. Putnam).

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

Department: Mathematics  
Course: MTH 208  
Title: Operation Research  
Description: This course is an introduction to operations research. The following topics are discussed: linear programming, simplex method, duality theory, sensitivity analysis, transportation

Department: Mathematics
Course: MTH 210
Title: Introduction to Financial Mathematics
Prerequisites: MTH 201 or ECO 230
Description: An introduction to some of the mathematical concepts and techniques underlying finance theory. The main financial applications will be to arbitrage pricing theory and option pricing.

Department: Mathematics
Course: MTH 218
Title: Introduction to Mathematical Models in Social & Life Sciences
Instructor: MTH 218 and MTH 219 are aimed building problem solving ability in students through the development of mathematical models for certain real-life situations in the social and biological sciences. MTH 218 concentrates on axiomatic models and those involving autonomous systems of differential equations. Topics are selected from biology and political science, including voting theory and Arrow's Theorem. A student who takes both semesters will have the exposure to three basic sorts of models: deterministic (differential equations); probability; axiomatic.

Department: Mathematics
Course: MTH 230
Title: Number Theory w/Applications
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 165
Description: In this course we develop matrix methods for determining the solvability of and finding solutions to systems of linear equations in several variables. We study linear transformations on finite-dimensional vector spaces over R (real numbers) and C (complex numbers), which includes a development of the concepts of an inner product, orthogonality, a basis of a vector space, and eigenspaces of linear transformations.

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

Department: Mathematics
Course: MTH 246
Title: Set Theory and Logic
Description: This course provides an introduction to the essential concepts of set theory and logic. Among the topics covered are sets, relations, equivalence, order, cardinal and ordinal arithmetic, the axiom of choice, continuum hypothesis, propositional calculus and the consistency and completeness of axiomatic systems.

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

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

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

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

Department: Mathematics
Course: MTH 280
Title: Introduction to Numerical Analysis
Prerequisites: MTH 162 or equivalent
Cross-listed: STT 280
Description: The numerical solution to mathematical problems by computer. Linear systems, approximation, integration, and differential equations. Floating point arithmetic and consequent pitfalls of computation.

Department: Mathematics
Course: MTH 281
Title: Introduction to Fourier Analysis
Prerequisites: (MTH 163 or MTH 173)and (MTH 164 or MTH 174). Equivalent to ME 201.

Department: Mathematics
Course: MTH 436
Title: Algebra I
Prerequisites: MTH 237
Restrictions: Permission of instructor required for undergraduates
Description: Rings and modules, group theory, Galois theory.

Department: Mathematics
Course: MTH 440
Title: Algebra II
Prerequisites: MTH 237
Restrictions: Permission of instructor required for undergraduates
Description: Rings and modules, group theory, Galois theory.

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

Department: Modern Languages & Cultures -- Chinese  
Course: CHI 114  
Title: Conversational Chinese  
Instructor: Yu, S  
Class Size: 15  
Prerequisites: CHI 102 or equivalent, 1200 characters.  
Description: This is a 2 credit course which may be taken twice for credit. Emphasis on speaking skills with a focus on current issues in Chinese culture and society. May be taken concurrently with CHI 151 or CHI 152.

Department: Modern Languages & Cultures -- Chinese  
Course: CHI 151  
Title: Intermediate Chinese I  
Instructor: Yu, S.  
Class Size: 20  
Prerequisites: CHI 102 or permission of instructor, 800 characters.  
Description: This 6 credit course is the continuation of CHI 102. Knowledge of the Pinyin system is required for the purpose of pronunciation. The course continues to focus on developing communicating skills with an increasing emphasis on reading and writing in ideographic characters and expanding vocabulary. Course work includes 3 weekly recitation sessions. It aims to build a vocabulary based on 1200 characters.

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

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

Course: CLT 101D  
Title: Mexico, DF: Global Metropolis  
Cross-listed: SP 277  
Instructor: Rodriguez, R.  
Description: Called by some "the capital of the 21st century," Greater Mexico City is inhabited by close to 20 million people. The Distrito Federal (DF) and capital of Mexico is today the largest metropolitan area in the western hemisphere and third largest city in the world by population. Established by the Spanish in 1524 on the ruins of the Aztec city Tenochtitlan they destroyed, Mexico City is a global center of finance, culture, and industry. This course examines the development of this vibrant megalopolis over the 20th and 21st centuries using literature, film, politics, tourism, music and the arts, cultural geography, architectural space, and essays by urban wanderers to try and get a handle on a space that seems to contradict itself at every turn.

Course: CLT 101I  
Title: Cowboys and Indians  
Cross-listed: GER 209  
Instructor: Hwang, J.  
Description: For Course description see GER 209

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

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

Course: CLT 207C  
Title: Modern Italy 1815 - 1948  
Cross-listed: IT 228/HIS 228  
Instructor: Conti, G.  
Description: Please see IT 228 for the course description.
Course: CLT 208a
Title: Traditional Japanese Culture
Cross-listed: JPN 210/210W, CLT 408A, AH 231, HIS 297
Instructor: Pollack, D.
Description: For course description see JPN 210

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 211D
Title: Contemporary French Film
Cross-listed: FR 283/483/CLT 411D/FMS 276
Instructor: Willis, S.
Description: Please see Art History 283 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 212I
Title: Cinema and Revolution: The West German Avant-garde
Cross-listed: GER 283/483, CLT 412I, FMS 288
Instructor: Creech, J.
Description: Please see GER 283 for Course Description

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

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 214A
Title: History of Japanese Cinema
Cross-listed: CLT 414A, JPN 283/283W, FMS 297
Instructor: Bernardi, J.
Description: See JPN 283 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 218
Title: Film History - 1929 - 1959
Cross-listed: ENG 256/456, AH 253, CLT 218, FMS 234
Instructor: Willis, S.
Description: This course will explore the developments in world cinema - industrial, technological, social and political - in the second half of the sound period (1959 to the present). What brought about the collapse of the Hollywood studio system? What's new about the French New Wave? What do we mean by "Third Cinema"? How do different national cinemas influence each other?
Requirements: mandatory weekly screenings, participation in class discussions, weekly WebCt film journal, and three take-home exams.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 243
Title: Wizards, Magic, and Fantasy
Cross-listed: GER 232, WST 232
Instructor: Gustafson, S.
Description: For course description see GER 232

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 251
Title: The Novel in Europe: 1814-1848
Cross-listed: FR 235/435, CLT 451, IT 249
Instructor: Doran, Robert
Description: For Course Description see FR 235

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 253C
Title: Dante's Divine Comedy I
Cross-listed: CLT 253c, ENG 206, IT 220, REL 197q/285
Instructor: Stocchi-Perucchio, D.
Description: Please see IT 220 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 255D
Title: Dostoevsky
Cross-listed: RST 191Q, RUS 191Q, RUS 237/237W, RST 23
Instructor: Givens, J.
Description: See RUS 191Q for course description

Department: Modern Languages & Cultures -- Comparative Literature
Course: CLT 257A
Title: The Arabian Nights
Cross-listed: REL 148/ARA 148
Instructor: Beaumont, D.
Description: See ARA 148 for the course description.

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 265C
Title: Dangerous Texts: Literature and Politics in Russia
Cross-listed: RUS 289/289W, RST 289/289W, HIS 243/243W
Instructor: Parthe, K.
Description: For course description see RUS 289

Department: Modern Languages & Cultures - Comparative Literature
Course: CLT 266
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<th>Course</th>
<th>Title</th>
<th>Cross-listed</th>
<th>Instructor</th>
<th>Department</th>
<th>Description</th>
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<td>CLT 267</td>
<td>Napoleon: Image, Myth, History</td>
<td>FR 249, CLT 466, HIS 224, FMS 221, AH 24</td>
<td>Doran, Robert</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>For course description see FR 249</td>
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<tr>
<td>CLT 266/466</td>
<td>Traditional Japanese Culture</td>
<td>JPN 210/210W, CLT 208A, AH 231, HIS 297</td>
<td>Pollack, D.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>For course description see JPN 210</td>
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<td>CLT 281B</td>
<td>Psychoanalysis and Literature</td>
<td>FR 275/475, CLT 481B</td>
<td>DiPiero, T.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>For course description see FR 275</td>
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<tr>
<td>CLT 282A</td>
<td>Marx and Marxism</td>
<td>CLT 482A, GER 204/404</td>
<td>Creech, J.</td>
<td>Modern Languages &amp; Cultures -- Comparative Literature</td>
<td>Please see GER 204 for the course description.</td>
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<td>CLT 287</td>
<td>Studies in Translation</td>
<td>ENG 287/487, LTS 200, CLT 487</td>
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<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>See &quot;ENG 287&quot; for description</td>
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<td>CLT 393</td>
<td>Senior Project</td>
<td>CLT 408A</td>
<td>Gustafson, S.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
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<td>CLT 411D</td>
<td>Contemporary French Film</td>
<td>FR 283/483, CLT 211D/411D, FMS 276</td>
<td>Willis, S.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>For course description see AH 283</td>
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<td>CLT 412I</td>
<td>Cinema and Revolution: The West German Avant-garde</td>
<td>GER 283/483, CLT 212I, FMS 288</td>
<td>Creech, J.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>Please see GER 283 for Course Description.</td>
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<td>CLT 214A</td>
<td>History of Japanese Cinema</td>
<td>JPN 283, CLT 214A/414A, FMS 297</td>
<td>Bernardi, J.</td>
<td>Modern Languages &amp; Cultures -- Comparative Literature</td>
<td>Please see JPN 283 for Course Description.</td>
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<td>CLT 414A</td>
<td>History of Japanese Cinema</td>
<td>FR 235/435, CLT 251</td>
<td>Doran, Robert</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>For course description see FR 235</td>
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<td>CLT 451</td>
<td>History of Japanese Cinema</td>
<td>CLT 451</td>
<td>Creech, J.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>Walking on Your Head Writing Vertigo in German Literature and Philosophy</td>
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<td>CLT 462</td>
<td>Walking on Your Head Writing Vertigo in German Literature and Philosophy</td>
<td>GER 246/446, CLT 262C</td>
<td>Peck, J.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>See description for GER 246</td>
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<td>CLT 466</td>
<td>Napoleon: Image, Myth, History</td>
<td>FR 249, CLT 266/466, HIS 224, AH 249</td>
<td>Doran, Robert</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
<td>For course description see FR 249</td>
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<tr>
<td>CLT 481B</td>
<td>Psychoanalysis and Literature</td>
<td>FR 275/475, CLT 281B</td>
<td>DiPiero, T.</td>
<td>Modern Languages &amp; Cultures - Comparative Literature</td>
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</tbody>
</table>
### Modern Languages & Cultures -- Comparative Literature

**Course:** CLT 482A  
**Title:** Marx and Marxism  
**Instructor:** Creech, J.  
**Description:** See description for GER 205.

### Modern Languages & Cultures - Comparative Literature

**Course:** CLT 487  
**Title:** Studies in Literary Translation  
**Instructor:** Schaefer, C  
**Description:** For Course Description See LTS 200

**Course:** CLT 592  
**Title:** Languages Learning and Teaching  
**Instructor:** Creech, J.  
**Description:** This course treats 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.

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### Modern Languages & Cultures -- French

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

**Course:** FR 151  
**Title:** Intermediate French I  
**Instructor:** Douchin, A.  
**Class Size:** 15  
**Prerequisites:** FR 101  
**Exams:** Quizzes, compositions, final exam  
**Description:** A continuation of French 151, this course further develops language skills in the context of readings on French culture and literature. A major work of literature will be read in its entirety.

**Course:** FR 152  
**Title:** Intermediate French II  
**Instructor:** Douchin, A.  
**Class Size:** 15  
**Prerequisites:** FR 151, or ETS score of 550  
**Exams:** Quizzes, compositions, final exam  
**Description:** A continuation of French 151, this course further develops language skills in the context of readings on French culture and literature. A major work of literature will be read in its entirety.

**Course:** FR 155  
**Title:** French Conversation and Composition  
**Instructor:** Kemedjio, C.  
**Class Size:** 30  
**Prerequisites:** FR 114, 200 or permission of instructor  
**Exams:** Quizzes, compositions, final exam  
**Description:** This course is designed to provide students with a comprehensive view of French Contemporary culture through major trends of French cultural, political, and intellectual life in the recent years. While we cannot study factual representations of French culture, we will attempt to establish a conceptual framework that would help us in the understanding of complex questions such as; What does it mean to be French?, What is France? What is French culture?, etc.

**Course:** FR 200  
**Title:** Advanced French I  
**Instructor:** Douchin, A.  
**Class Size:** 20  
**Prerequisites:** FR 152 or equivalent  
**Exams:** Quizzes, compositions, final exam  
**Description:** Intensive practice in reading, writing, and speaking French, based on rigorous grammar review and on close readings of short literary and cultural texts. Classroom work emphasizes grammar, speaking, reading and writing French.

**Course:** FR 204  
**Title:** Contemporary French Culture  
**Instructor:** Kemedjio, C.  
**Class Size:** 30  
**Prerequisites:** FR 114, 200 or permission of instructor  
**Exams:** Quizzes, compositions, final exam  
**Description:** This course is designed to provide students with a comprehensive view of French Contemporary culture through major trends of French cultural, political, and intellectual life in the recent years. While we cannot study factual representations of French culture, we will attempt to establish a conceptual framework that would help us in the understanding of complex questions such as; What does it mean to be French?, What is France? What is French culture?, etc.
| Course:       | FR 235                   | Description: This course studies the emergence of historical fiction and realism in the first half of the nineteenth century as a European-wide phenomenon. Through the study of four seminal novels—Scott's *Waverly* (1814), Manzoni's *The Bethrothed* (1822/1840), Stendhal's *The Red and the Black* (1830), and Balzac's *Lost Illusions* (1837-1843)—we will examine how literary representation as epitomized in the novel coincided with the rise of the bourgeois class as political, social, and economic force. Concepts discussed: Bildungsroman (roman d' apprentissage), mimesis, figuralism, historical consciousness, style, narration. Critical readings include texts by Erich Auerbach, Georg Lukacs, René Girard, Franco Moretti, Fredric Jameson, and Hayden White. |
| Title:       | The Novel in Europe: 1814-1848 |
| Cross-listed:| FR 435, IT 249, CLT 251/451 |
| Instructor:  | Doran, Robert             |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 283 |
| Title: Contemporary French Film |
| Cross-listed:| FR 283, AH 283/483, FMS 276, CLT 211D/41 |
| Instructor:  | Willis, S.                |
| Description:| For course description see AH 283 |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 286 |
| Title: Growing Up In French |
| Cross-listed:| CLT 266/466, HIS 224, FMS 221, AH 249 |
| Instructor:  | Doran, Robert             |
| Description:| With the exception of Jesus Christ, no historical personage has been more written about, or been the subject of more iconic portrayals, than Napoleon Bonaparte. This course examines the image of Napoleon at the intersection of myth and history, for Napoleon attempts to write his own history as myth. Literary accounts of Bounier, Chateaubriand, Stendhal, Hugo, Dumas, Tolstoy, and Scott. Pictorial representations by David, Gros, Géricault. Abel Gance's classic silent epic Napoleon (1927), Guitry's Napoleon (1955), as well as other cinematic treatments. Modern historical treatments by Cole, Englund, Bell. Conducted in English. |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 249 |
| Title: Napoleon: Image, Myth, History |
| Cross-listed:| CLT 266/466, HIS 224, FMS 221, AH 249 |
| Instructor:  | Doran, Robert             |
| Description:| How does literature "think," and what sorts of things does it think about? How do we decide what it means, and why are so many literary texts about love, death, and/or people finding out about who they are? Reading literature with the aid of psychoanalytic theory, we will discuss the formation of subjectivity, perspective, the gaze, and love and death, and we will investigate how art and literature can communicate things that no other form of language can. We will read works by Henry James, Edgar Allan Poe, Jean-Paul Sartre, Julia Kristeva, Sigmund Freud, Jacques Lacan, and Salavoj Zizek, among others. |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 275 |
| Title: Psychoanalysis and Literature |
| Cross-listed:| FR 275, CLT 281B/481B |
| Instructor:  | DiPiero, T.                |
| Description:| For course description see FR 235 |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 404 |
| Title: Contemporary French Culture |
| Cross-listed:| FR 204 |
| Instructor:  | Kemedjio, C.               |
| Description:| Please see FR 204 for course description |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 435 |
| Title: The Novel in Europe: 1814-1848 |
| Cross-listed:| FR 235, CLT 251/451, IT 249 |
| Instructor:  | Doran, Robert             |
| Description:| For course description see FR 235 |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 475 |
| Title: Psychoanalysis and Literature |
| Cross-listed:| FR 275, CLT 281B/481B |
| Instructor:  | DiPiero, T.                |
| Description:| For course description see FR 275 |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 483 |
| Title: Modern Languages & Cultures -- French |
| Cross-listed:| FR 483 |
| Instructor:  | Modern Languages & Cultures -- French |
| Description:| Modern Languages & Cultures -- French |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 249 |
| Title: Napoleon: Image, Myth, History |
| Cross-listed:| CLT 266/466, HIS 224, FMS 221, AH 249 |
| Instructor:  | Doran, Robert             |
| Description:| With the exception of Jesus Christ, no historical personage has been more written about, or been the subject of more iconic portrayals, than Napoleon Bonaparte. This course examines the image of Napoleon at the intersection of myth and history, for Napoleon attempts to write his own history as myth. Literary accounts of Bounier, Chateaubriand, Stendhal, Hugo, Dumas, Tolstoy, and Scott. Pictorial representations by David, Gros, Géricault. Abel Gance's classic silent epic Napoleon (1927), Guitry's Napoleon (1955), as well as other cinematic treatments. Modern historical treatments by Cole, Englund, Bell. Conducted in English. |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 249 |
| Title: Napoleon: Image, Myth, History |
| Cross-listed:| CLT 266/466, HIS 224, FMS 221, AH 249 |
| Instructor:  | Doran, Robert             |
| Description:| With the exception of Jesus Christ, no historical personage has been more written about, or been the subject of more iconic portrayals, than Napoleon Bonaparte. This course examines the image of Napoleon at the intersection of myth and history, for Napoleon attempts to write his own history as myth. Literary accounts of Bounier, Chateaubriand, Stendhal, Hugo, Dumas, Tolstoy, and Scott. Pictorial representations by David, Gros, Géricault. Abel Gance's classic silent epic Napoleon (1927), Guitry's Napoleon (1955), as well as other cinematic treatments. Modern historical treatments by Cole, Englund, Bell. Conducted in English. |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 249 |
| Title: Napoleon: Image, Myth, History |
| Cross-listed:| CLT 266/466, HIS 224, FMS 221, AH 249 |
| Instructor:  | Doran, Robert             |
| Description:| With the exception of Jesus Christ, no historical personage has been more written about, or been the subject of more iconic portrayals, than Napoleon Bonaparte. This course examines the image of Napoleon at the intersection of myth and history, for Napoleon attempts to write his own history as myth. Literary accounts of Bounier, Chateaubriand, Stendhal, Hugo, Dumas, Tolstoy, and Scott. Pictorial representations by David, Gros, Géricault. Abel Gance's classic silent epic Napoleon (1927), Guitry's Napoleon (1955), as well as other cinematic treatments. Modern historical treatments by Cole, Englund, Bell. Conducted in English. |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 249 |
| Title: Napoleon: Image, Myth, History |
| Cross-listed:| CLT 266/466, HIS 224, FMS 221, AH 249 |
| Instructor:  | Doran, Robert             |
| Description:| With the exception of Jesus Christ, no historical personage has been more written about, or been the subject of more iconic portrayals, than Napoleon Bonaparte. This course examines the image of Napoleon at the intersection of myth and history, for Napoleon attempts to write his own history as myth. Literary accounts of Bounier, Chateaubriand, Stendhal, Hugo, Dumas, Tolstoy, and Scott. Pictorial representations by David, Gros, Géricault. Abel Gance's classic silent epic Napoleon (1927), Guitry's Napoleon (1955), as well as other cinematic treatments. Modern historical treatments by Cole, Englund, Bell. Conducted in English. |
| Department:  | Modern Languages & Cultures -- French |
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| Title: Napoleon: Image, Myth, History |
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| Instructor:  | Doran, Robert             |
| Description:| With the exception of Jesus Christ, no historical personage has been more written about, or been the subject of more iconic portrayals, than Napoleon Bonaparte. This course examines the image of Napoleon at the intersection of myth and history, for Napoleon attempts to write his own history as myth. Literary accounts of Bounier, Chateaubriand, Stendhal, Hugo, Dumas, Tolstoy, and Scott. Pictorial representations by David, Gros, Géricault. Abel Gance's classic silent epic Napoleon (1927), Guitry's Napoleon (1955), as well as other cinematic treatments. Modern historical treatments by Cole, Englund, Bell. Conducted in English. |
| Department:  | Modern Languages & Cultures -- French |
| Course: FR 249 |
| Title: Napoleon: Image, Myth, History |
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| Instructor:  | Doran, Robert             |
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### Modern Languages & Cultures -- German

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<th>Department:</th>
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<td>Title:</td>
<td>Elementary German I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Kuzmich, A.</td>
</tr>
<tr>
<td>Exams:</td>
<td>At least 4 quizzes; midterm; final exam</td>
</tr>
<tr>
<td>Description:</td>
<td>This is the first semester of a two-semester sequence using an exciting new interactive approach to language learning. Students are encouraged, right from the start, to communicate in German utilizing basic vocabulary and authentic expressions in their spoken and written work. Listening comprehension is honed using audio taped material featuring a variety of native speakers, while a series of video tapes provide a basic introduction to the cultures of German speaking countries.</td>
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<thead>
<tr>
<th>Department:</th>
<th>Modern Languages &amp; Cultures -- German</th>
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<tbody>
<tr>
<td>Course:</td>
<td>GER 151</td>
</tr>
<tr>
<td>Title:</td>
<td>Intermediate German I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Peck, J</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>GER 102 or permission of instructor</td>
</tr>
<tr>
<td>Exams:</td>
<td>4-5 quizzes, final exam</td>
</tr>
<tr>
<td>Description:</td>
<td>Process writing, reading, and listening exercises provide the context in this course for a thorough review of German grammatical structures. Students are expected to write short, weekly essays, complete weekly assignments in listening, and hone their speaking skills through active class participation.</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>GER 200</td>
</tr>
<tr>
<td>Title:</td>
<td>Advanced Conversation and Composition</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>GER 200W</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Hwang, J</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>GER 152 or equivalent</td>
</tr>
<tr>
<td>Exams:</td>
<td>Midterm and final</td>
</tr>
<tr>
<td>Description:</td>
<td>This class assumes enough knowledge of the German language for reading somewhat longer fictional and nonfictional texts and viewing films in the original. The class is organized around general topics and themes. Students will write short, weekly essays in German on select topics. Class taught in German.</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>GER 203W</td>
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<tr>
<td>Title:</td>
<td>Introduction to German Literature</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>GER 203W</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Gustafson, S</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>GER 152 or equivalent</td>
</tr>
<tr>
<td>Description:</td>
<td>Everything you ever wanted to know about German literature but were afraid to ask. This course looks at German poems, plays and novellas from various historical periods and within the context of several techniques of interpretation. It is designed to prepare students for sophisticated analysis of literary texts. This course is taught in German.</td>
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<tr>
<td>Course:</td>
<td>GER 204</td>
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<tr>
<td>Title:</td>
<td>Marx &amp; Marxism</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>GER 404/CLT 282A, 482A</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Creech, J</td>
</tr>
<tr>
<td>Description:</td>
<td>It is not overstated to say that the works of Karl Marx have provided the transformational impulse to many of the changes of the 20th century. Who was this person, Karl Marx? Why is it that in this post-Cold War world his writings continue both to inspire and threaten contemporary readers? How have those inspired by Marx further developed his ideas to constitute the discourse of Marxism? In this course we will begin with discussions of key works by Marx. We will then move on to examine some significant contributions to Marxism.</td>
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<tr>
<td>Course:</td>
<td>GER 209</td>
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<tr>
<td>Title:</td>
<td>Cowboys and Indians</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>CLT 101I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Hwang, J</td>
</tr>
<tr>
<td>Description:</td>
<td>For course description see GER 200</td>
</tr>
</tbody>
</table>
What makes a Western a Western? Is it cowboys and Indians and vistas of the American West? Is it a Western if tough guy Clint Eastwood stars in a film by an Italian director shot in Spain? Or if a German who had never been to the United States writes about the heroic Indian Winnetou and the film versions of the novels are shot in Eastern Europe? This will explore the myth of the American West in film and literature, including Westerns from Germany, Asia, and of course, the US. Texts and discussions will be in English.

Modern Languages & Cultures -- German
Course: GER 232
Title: Wizards, Magic, and Fantasy
Cross-listed: CLT 243, WST 232
Instructor: Gustafson, S.
Description: This course traces the development of the fantasy literature genre from ETA Hoffmann's The Golden Pot to JK Rowling's Harry Potter series. Particular attention is devoted to the tropes and structures of fantasy narratives as they offer the reader an escape from a mundane or threatening world and provide intricate social critiques. Topics addressed include: wizards, witches, talking cats, flights of fantasy, new worlds, and social construction of work, class, others, families, mothers, fathers, masculinity, femininity etc. Authors include: Hoffmann, Rowling, Shelley, Orwell, Tolkien, Kafka, Atwood, etc.

Modern Languages & Cultures -- German
Course: GER 283
Title: Cinema and Revolution: The West German Avant-garde
Cross-listed: CLT 212I/412I, FMS 288
Instructor: Creech, J.
Description: Dissent, violence, terror. This course will explore the relationship between film and revolution in West German cinema from 1965 to the present. In the course, we will consider cinemas potential as a revolutionary medium, while also focusing on how revolution is thematized and constructed in both fiction and documentary films. The course will engage with issues such as coming to terms with the fascist past, recreating the cinema as a revolutionary artistic form, feminism as a revolutionary perspective, the domestic sphere as a revolutionary space, and the co-optation of the cinemas revolutionary potential through mass consumption. Each film will be explored in relation to its socio-historical context, providing students with an overview of German film and culture of the period.

Modern Languages & Cultures -- German
Course: GER 404
Title: Marx & Marxism
Cross-listed: GER 204, CLT 282A/482A
Instructor: Creech, J.
Description: For course description see GER 204

Modern Languages & Cultures -- German
Course: GER 483
Title: Freud and Psychoanalysis
Cross-listed: CLT 282/482, GER 206/WST 274
Instructor: Gustafson, S.
Description: Please see GER 206 for course description.

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

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

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

Coursework: Daily oral and written preparation for class.
Description: The aim of the course is to reinforce the student's reading, writing, listening and speaking skills in a meaningful cultural context. This objective is achieved through both a systematic study of the fundamentals of grammar and the analysis of a variety of cultural materials. Topics for study, writing practice, through compositions, and discussion include literature, history, and popular culture.

Department: Modern Languages & Cultures - Italian
Course: IT 150
Title: Culture in Context
Instructor: Donatella Stocchi-Perucchio
Description: This component of the program offers a unique hands-on cultural experience within the city of Arezzo, its surrounding territory, and its community. It brings U of R students in direct contact with Arezzo city life and traditions, and takes advantage of developments on the local scene as they arise. It promotes student involvement in a wide range of events and activities such as learning about medieval jousting, reading in Eng to young children at Santa Caterina Boarding School, conversation practice with local university students, participating in international workshops in Peace Studies. Other activities include visits and excursions to industrial and agricultural sites to foster understanding of the Arete industrial and agricultural economy-such as the manufacturing of gold, design clothing, and furniture as well as the production of wine and olive oil.

Coursework: Three 200 word reports to be presented in class. Three quizzes.
Description: The course will enhance comprehension and communication skills as well as knowledge of Italian grammar. Emphasis is on reading, vocabulary building, and perfecting oral and written skills. In addition to the above courses, all students participate in frequent afternoon cultural/language activities, which involves visits to important sites such as the University, the Comune (city hall), and the Duomo (cathedral). Students also enjoy studying the economic backbone of Arezzo which includes, among other things, the production of gold, wine, olive oil, and clothing. All of these outings will be framed in both historical and contemporary contexts.

Department: Modern Languages & Cultures -- Italian
Course: IT 151
Title: Intermediate Italian I
Instructor: O'Keefe, L.  
Class Size: 15
Prerequisites: Two semesters of college-level Italian.
Exams: Seven exams, one final paper
Description: This course is the first segment of a two-semester sequence on the Divine Comedy. The purpose of the sequence is to introduce students to the liberal arts through one of the most significant texts in Western civilization. While reading about Dante's adventurous journey from Inferno to Paradise, students will gain a perspective on the Biblical, Christian, and Classical traditions, and on the political, literary, philosophical, and theological dimensions of medieval European culture. The sequence will
also provide students with an avenue of investigation on the problem of knowledge--one of the poem's central concerns--and guide them in developing critical tools and research skills. We will begin the course by building a historical and intellectual frame of reference in which to locate The Divine Comedy. We will then proceed to a close reading of Inferno and a few cantos of Purgatory. Lectures and class discussion will be complemented by a weekly recitation session. Students with background or interest in the following areas are particularly encouraged to apply: Italian, history, classics, religion, philosophy, poetry, medieval studies, interdisciplinary studies. Students enrolled for the upper level cross listings will be assigned a separate complementary reading list with additional primary and secondary sources. Prerequisites: none. Continuation with Dante's Divine Comedy II is recommended but not required.

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

Department: Modern Languages & Cultures - Italian
Course: IT 244
Title: From Piero to Vasari Fifteenth Century Italian Art
Cross-listed: AH 244
Exams: A mid-term; and a final exam.
Coursework: Two short presentations.
Description: When we look at works of art in museums, galleries, and churches we are, in most cases, looking at them out of context. Furthermore, when we look at early Renaissance paintings we do not see them through the eyes of the people who produced them or for whom they were produced. We have to learn to see them as they might have been seen. We can begin to do this by learning how to read and to interpret the complex elements at play beneath the immediate surface by setting the artist, his work, and his public in their social and religious historical contexts, and by exploring the universal unspoken language of signs and symbols used by artists. The course content is based on painted forms, i.e., panels, canvases, and frescos from the Trecento and Quattrocento with an emphasis on Tuscan painting. The selection, as far as possible, takes advantage of the availability of works in churches, museums, and galleries within easy visiting distance of Arezzo.

Department: Modern Languages & Cultures -- Italian
Course: IT 248
Title: Our Voyage to Italy
Cross-listed: CLT 213B, HIS 227 and FMS 256A
Instructor: Donatello Stocchi-Perucchio
Description: The course focuses on a few momentous episodes and phenomena of Italian political, social and cultural history as portrayed and interpreted in film

Department: Modern Languages & Cultures - Italian
Course: IT 249
Title: The Novel in Europe: 1814-1848
Cross-listed: FR 435, CLT 251/451
Instructor: Robert Doran
Description: For course description see FR 235

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

Modern Languages & Cultures -- Japanese

Department: Modern Languages & Cultures -- Japanese
Course: JPN 101
Title: Elementary Japanese I
| Instructor                  | Fumino, S.                                                                                 | Class Size: 40 |
|----------------------------|------------------------------------------------------------------------------------------------|
| Prerequisites              | Quizzes, lesson tests, final exam                                                           |                |
| Description                | STUDENTS MUST REGISTER FOR BOTH LECTURE AND RECITATION. Designed to help beginners acquire a basic command of Japanese. Speaking and listening are emphasized. The classes will be conducted in English and Japanese, shifting from the former to the latter. In the beginning, students will master the Japanese "hiragana" writing system, which they will use in the rest of the course. Students will learn various sentence and phrase particles, basic word order, basic conjugation, and number systems. As the course progresses, katakana syllabaries and kanji (Chinese characters) will be also introduced. Requirements include regular assignments, quizzes, a final exam and language lab. Video and audio tapes are frequently used. Six credits. |                |
| Department                 | Modern Languages & Cultures -- Japanese                                                      |                |
| Course                     | JPN 114                                                                                     |                |
| Title                      | Intermediate Conversational Japanese                                                        |                |
| Instructor                 | Tamate, M.                                                                                  |                |
| Prerequisites              | JPN 102 or equivalent                                                                       |                |
| Description                | Emphasis on speaking skills with focus on current issues in Japanese culture and society. May be taken concurrently with JPN 151 or JPN 152. This is a two-credit course which may be taken twice for credit. |                |

| Instructor                  | Tamate, M.                                                                                 | Class Size: 20 |
| Prerequisites              | JPN 152 or instructor's permission                                                          |                |
| Exams                      | Kanji quizzes, Unite quizzes, a comprehensive final.                                        |                |
| Coursework                 | Essay assignments will be given to students regularly in order to brush up their writing skills. |                |
| Description                | This course aims at the improvement of students'overall proficiency in the Japanese language. More weight will be placed on reading and writing with the aid of dictionaries. Listening and speaking skills will be improved through watching a Japanese drama. Class taught in Japanese. |                |
| Department                 | Modern Languages & Cultures -- Japanese                                                      |                |
| Course                     | JPN 204                                                                                     |                |
| Title                      | Advanced Conversational Japanese (two credits)                                              |                |
| Instructor                 | Tamate, M.                                                                                  |                |
| Prerequisites              | JPN 152 or Permission of Instructor                                                          |                |
| Description                | Provides students of JPN 202 level or higher with the opportunity to improve their speaking skills. Class activities include discussion of current issues and oral drills. The class will be conducted in Japanese, and is not intended for students who have already acquired near-native fluency. |                |

| Instructor                  | Tamate, M.                                                                                 | Class Size: 30 |
| Prerequisites              | JPN 203 or equivalent                                                                       |                |
| Exams                      | Kanji quizzes, Unite quizzes, a comprehensive final.                                        |                |
| Coursework                 | Presentations                                                                               |                |
| Description                | This course covers various aspects of contemporary Japanese language culture as found in magazines, journals, television. Taught in Japanese. |                |

| Instructor                  | Tamate, M.                                                                                 | Class Size: 30 |
| Prerequisites              | JPN 203 or equivalent                                                                       |                |
| Exams                      | Kanji quizzes, Unite quizzes, a comprehensive final.                                        |                |
| Coursework                 | Presentations                                                                               |                |
| Description                | See JPN 205 for course description                                                          |                |

| Instructor                  | Tamate, M.                                                                                 | Class Size: 30 |
| Prerequisites              | JPN 203 or equivalent                                                                       |                |
| Exams                      | Kanji quizzes, Unite quizzes, a comprehensive final.                                        |                |
| Coursework                 | Presentations                                                                               |                |
| Description                | See JPN 205 for course description                                                          |                |

| Instructor                  | Tamate, M.                                                                                 | Class Size: 30 |
| Prerequisites              | JPN 203 or equivalent                                                                       |                |
| Exams                      | Kanji quizzes, Unite quizzes, a comprehensive final.                                        |                |
| Coursework                 | Presentations                                                                               |                |
| Description                | See JPN 205 for course description                                                          |                |
Modern Languages & Cultures -- Japanese

Course: JPN 210
Title: Traditional Japanese Culture
Cross-listed: JPN 210W, CLT 208A/408A, AH 231, HIS 297
Instructor: Pollack, D.
Description: A survey of Japan's traditional visual arts spanning the range from prehistoric decorated pottery up to the advent of photography. Attention to the social contexts of aesthetic experience and to ideas of a "national culture." Taught in English, additional work available in Japanese where appropriate.

Course: JPN 210W
Title: Traditional Japanese Culture
Cross-listed: JPN 210, CLT 208A/408A, AH 231, HIS 297
Instructor: Pollack, D.
Description: An overview of Japan's traditional culture through the most prominent examples of its visual, literary, and performing arts, with attention to the social contexts of aesthetic experience and to ideas of a "national culture." Taught in English, additional work available in Japanese where appropriate.

Course: JPN 216
Title: Traditional Japan
Cross-listed: HIS 105
Instructor: Hauser, W.
Description: For course description see JPN 210

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

Course: JPN 283
Title: History of Japanese Cinema
Cross-listed: JPN 283, CLT 214A/414A, FMS 297
Instructor: Bernardi, J.
Description: A survey of Japanese cinema since its origins, this course examines the major issues, trends and moments that make up its history. Content varies according to the particular time span offered (origins to 1960s or origins to present), but significant topics addressed include: silent film and popular culture; the import market and its influence; prewar, wartime and postwar censorship; popular genres; animation; the early international festival circuit; the art film and New Wave; and patterns of global distribution and exchange. Course taught in English (additional instruction in Japanese available for majors).

Modern Languages & Cultures -- Polish

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

Course: POL 151
Title: Intermediate Polish
Instructor: Polakowski, K.
Description: While the main focus of the Elementary Polish Course was put on word-formative process, the basic use of the cases and prepositions as well as the essential aspects of Polish syntax, the intermediate course will focus on active use of contemporary Polish, written and colloquial. The main objective, based on basic knowledge of grammatical rules is to achieve independence in communication. Summer courses of the Polish language in Krakow, facilitated by the Skalny Center for Polish and Central European Studies at U.R. is highly recommended after completion of the intermediate course.
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<thead>
<tr>
<th>Department: Modern Languages &amp; Cultures -- Russian</th>
<th>Title: Intermediate Russian I</th>
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<tbody>
<tr>
<td>Course: RUS 101</td>
<td>Instructor: Givens, L.</td>
</tr>
<tr>
<td>Title: Elementary Russian I</td>
<td>Prerequisites: RUS 102 or equivalent</td>
</tr>
<tr>
<td>Instructor: Givens, J.</td>
<td>Exams: 6-8 chapter tests</td>
</tr>
<tr>
<td>Exams: 6-8 chapter tests</td>
<td>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.</td>
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<tr>
<td>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.</td>
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<tr>
<th>Department: Modern Languages &amp; Cultures -- Russian</th>
<th>Title: Russia Now (4 credits)</th>
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<tr>
<td>Course: RUS 126</td>
<td>Cross-listed: RST 191Q, RUS 191Q, RUS 237/237W, RST 23</td>
</tr>
<tr>
<td>Title: Russia Now (4 credits)</td>
<td>Instructor: Parthe, K.</td>
</tr>
<tr>
<td>Cross-listed: RST 126/HIS 154, RUS 126</td>
<td>Instructor: Parthe, K.</td>
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<tr>
<td>Instructor: Parthe, K.</td>
<td>Instructor: Parthe, K.</td>
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<tr>
<td>Class Size: 15</td>
<td>Description: Dostoevsky has been called &quot;a sick, cruel talent,&quot; &quot;a prophet of God,&quot; &quot;the Shakespeare of the lunatic asylum,&quot; and &quot;Russia's evil genius.&quot; The Russian writer Ivan Turgenev called him &quot;the nastiest Christian&quot; he'd ever met. Henry James described Dostoevsky's works as &quot;baggy monsters&quot; while Joseph Conrad called The Brothers Karamazov &quot;an impossible lump of valuable matter. It's terrifically bad and impressive and exasperating.&quot; We will test these statements and form our own hypotheses as we unpack the writer's life and works, beginning with Poor Folk and Notes from the House of the Dead. We will then read and analyze Notes from Underground and Crime and Punishment and conclude with Brothers Karamazov. Students will write two 5-page essays and one 10-page essay. In English.</td>
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<tr>
<th>Department: Modern Languages &amp; Cultures -- Russian</th>
<th>Title: Advanced Readings in Russian</th>
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<tr>
<td>Course: RUS 202</td>
<td>Instructor: Maslennikova, A.</td>
</tr>
<tr>
<td>Title: Advanced Literature and Culture in Original</td>
<td>Class Size: 15</td>
</tr>
<tr>
<td>Instructor: Maslennikova, A.</td>
<td>Description: This course concentrates on increasing speed and comprehension in reading Russian. Students will read a variety of texts, both fiction and non-fiction from the early nineteenth century up to the present. We will discuss the texts, translate excerpts, focus on difficult grammatical constructions, build reading vocabulary through attention to identifying roots and endings, and write short essays in Russian about the readings. Class is conducted primarily in Russian.</td>
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<tr>
<th>Department: Modern Languages &amp; Cultures -- Russian</th>
<th>Title: Advanced Literature and Culture in Original</th>
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</thead>
<tbody>
<tr>
<td>Course: RUS 212</td>
<td>Instructor: Maslennikova, A.</td>
</tr>
<tr>
<td>Title: Advanced Literature and Culture in Original</td>
<td>Class Size: 30</td>
</tr>
<tr>
<td>Instructor: Maslennikova, A.</td>
<td>Description: This course is designed for students who can read Russian at an advanced level and wish to pursue particular areas of interest.</td>
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</table>
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 215  
**Title:** Advanced Literature and Culture in the Original II  
**Instructor:** Maslennikova, A.  
**Description:** "This course is a continuation of RUS 212. Prior enrollment in RUS 212 is not required."

**Department:** Modern Languages & Cultures -- Russian  
**Course:** RUS 224  
**Title:** Russian Art  
**Instructor:** Maslennikova, A.  
**Description:** This course focuses on the history of Russian art and architecture from the Christianization of Russia through the twentieth century. Students will learn how to read icons, discern the major features of Russian churches, and follow the development of Russian painting from the age of realism to modern times. The course is taught with reference to the major events in Russian history. No knowledge of Russian required.

**Department:** Modern Languages & Cultures -- Russian  
**Course:** RUS 237  
**Title:** Dostoevsky  
**Instructor:** Givens, J.  
**Description:** See RUS 191Q for the course description.

**Department:** Modern Languages & Cultures -- Russian  
**Course:** RUS 237W  
**Title:** Dangerous Texts: Literature and Politics in Russia  
**Instructor:** Givens, J.  
**Description:** For course description see RUS 289

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

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

**Department:** Modern Languages & Cultures -- Russian  
**Course:** RST 155  
**Title:** History of Russia to 1692  
**Instructor:** Lenoe, M.
Modern Languages & Cultures -- Russian Studies

**RST 191Q**
**Title:** Dostoevsky
**Cross-listed:** RUS 235, 235w, RST 235, 235w, CLT 113Q
**Instructor:** Givens, J.
**Description:** For Course Description see RST 190Q

**RST 224**
**Title:** Russian Art
**Instructor:** Maslennikova, A.
**Description:** Please see RUS 224 for course description.

**RST 237**
**Title:** Dostoevsky
**Cross-listed:** RUS 191Q/RUS 237, 237W/RST 237W/RST 191Q
**Instructor:** Givens, J.
**Description:** See RUS 237 for the course description.

**RST 289**
**Title:** Dangerous Texts: Literature and Politics in Russia
**Cross-listed:** CLT 265E/HIS 243, 243W/RUS 289, RUS289W,
**Instructor:** Parthe, K.
**Description:** Please see description of RUS 289

**RST 394**
**Title:** Russian Studies Internship

Modern Languages & Cultures -- Spanish

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

**SP 102**
**Title:** Elementary Spanish II
**Instructor:** Kouroublakis, B.
**Class Size:** 20
**Prerequisites:** SP 101 or equivalent
**Exams:** Frequent quizzes, midterm, final. Daily assignments.
**Description:** Spanish 102 continues the work of the beginning course Spanish 101. There is added emphasis on reading comprehension, vocabulary building, and culture. Students must also register for an associated recitation session.

**SP 151**
**Title:** Intermediate Spanish I

Modern Languages & Cultures -- Spanish

**SP 201**
**Title:** Advanced Spanish I
**Instructor:** Kouroublakis, B.
**Class Size:** 20
**Exams:** Frequent quizzes, midterm, final.
**Coursework:** Daily assignments.
**Description:** Intended for students with a background in Spanish. Training in speaking, comprehension, reading and writing through classroom instruction and recitation periods. Students must also register for an associated recitation section.

**SP 202**
**Title:** Advanced Spanish II
**Instructor:** Kouroublakis, B.
**Class Size:** 20
**Prerequisites:** SP 201 or equivalent
**Exams:** Frequent quizzes, midterm, final. Daily assignments.
**Description:** Spanish 202 continues the work of the beginning course Spanish 201. There is added emphasis on reading comprehension, vocabulary building, and culture. Students must also register for an associated recitation session.
**Course:** SP 152  
**Title:** Intermediate Spanish II  
**Instructor:** Cordoba, M.  
**Class Size:** 20

**Prerequisites:** SP 102, ETS score of 500 or Placement by dept.

**Exams:** Midterm, Final.

**Coursework:** Four Compositions and rewrites. Daily assignments.

**Description:** Continuing study of modern Spanish in its spoken and written forms. Emphasis is given to cultural and literary readings and discussions, as well as basic composition writing skills and Multimedia Center activities related to the text.

---

**Course:** SP 200  
**Title:** Advanced Spanish Composition  
**Instructor:** Jorgensen, B., Kersch, P., Rodriguez, R.  
**Class Size:** 15

**Prerequisites:** SP 151, SP 152 or equivalent, permission SP section.

**Exams:** Midterm and Final.

**Coursework:** Four compositions and rewrites. Daily assignments.

**Description:** Continuation of SP 151. Intended to advance conversational skills and refine writing techniques through cultural and literary readings, discussions, and Multimedia Center assignments related to the text.

---

**Course:** SP 249G  
**Title:** Princesas, prisioneras Y apasionadas: Women and Identity in Spain  
**Instructor:** Kersch, P.

**Prerequisites:** SP 151, SP 152 or equivalent, permission SP section.

**Coursework:** Four compositions and rewrites. Daily assignments.

**Description:** This course studies the transformations of female identity in various works of 20th and 21st century literature. We use feminist theory, psychoanalysis, and sociopolitical thought to study writers such as Carmen Laforet, Carmen Martín Gaite, Lucia Etxebarria, Ana Diosdado, and Yolanda Dorado. Works include prose and theater. All texts and discussions in Spanish.

---

**Course:** SP 262F  
**Title:** Identity Signs: Spanish American Coming of Age Stories  
**Instructor:** Jorgensen, B.

**Prerequisites:** SP 151, SP 152 or equivalent, permission SP section.

**Exams:** Midterm and Final.

**Coursework:** Four compositions and rewrites. Film review. Daily assignments.

**Description:** The story of a person's coming of age may take many forms, including the classic German model of the Bildungsroman, traditional autobiography, fiction short stories and novels, and testimonial literature. Narrative literature pre-dominates, but poetry can also be used to trace the process of a girl or boy child's development.

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**Course:** SP 277  
**Title:** Mexico, DF: Global Metropolis  
**Instructor:** Rodriguez, R.

**Description:** For course description see CLT 101D

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**Course:** LTS 200  
**Title:** Studies in Translation  
**Instructor:** Schaefer, C.

**Description:** This course will introduce students to the theoretical backgrounds, practical challenges, and creative activity of literary translation. We will survey appropriate theories of language and communication including semiotics, post-structuralism, pragmatics, discourse analysis, and cognitive linguistics. We will consider varied and conflicting descriptions by translators of what it is they believe they are doing and what they hope to accomplish by doing it; and we will study specific translation into English from a variety of sources in order to investigate the strategies and choices translator make and the implications of choices for our developing sense of what kinds of texts translations actually accomplish.

---

**Department:** Modern Languages & Cultures -- Spanish  
**Course:** SP 203  
**Title:** Early Hispanic Texts  
**Instructor:** Prendergast, R.  
**Class Size:** 30

**Prerequisites:** SP 200 or SP 201 or permission of instructor.

**Coursework:** Several short papers in Spanish required.

**Description:** This course features early-modern Hispanic texts of both Spain and Spanish America. It concentrates on the literature of the 16th and 17th centuries with works such as the Lazarillo de Tormes, the Novelas ejemplares of Cervantes, the poetry of Sor Juana Ines de la Cruz, and colonial texts included. Class taught in Spanish.

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**Department:** Modern Languages & Cultures -- Spanish  
**Course:** SP 294G  
**Title:** Literary Translation Studies  
**Instructor:** Schaefer, C.

**Description:** This course will introduce students to the theoretical backgrounds, practical challenges, and creative activity of literary translation. We will survey appropriate theories of language and communication including semiotics, post-structuralism, pragmatics, discourse analysis, and cognitive linguistics. We will consider varied and conflicting descriptions by translators of what it is they believe they are doing and what they hope to accomplish by doing it; and we will study specific translation into English from a variety of sources in order to investigate the strategies and choices translator make and the implications of choices for our developing sense of what kinds of texts translations actually accomplish.
<table>
<thead>
<tr>
<th>Department:</th>
<th>Music</th>
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</thead>
<tbody>
<tr>
<td>Course:</td>
<td>MUR 101</td>
</tr>
<tr>
<td>Title:</td>
<td>Elements of Music</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Hanson J</td>
</tr>
<tr>
<td>Class Size:</td>
<td>24</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Inability to read music</td>
</tr>
<tr>
<td>Exams:</td>
<td>Mid-term, final, some quizzes</td>
</tr>
<tr>
<td>Description:</td>
<td>A course for the student with no previous musical experience. Topics include notation, intervals, chords, and other basic concepts of tonal harmony, with application to the study of a wide range of styles including popular idioms.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 109</td>
</tr>
<tr>
<td>Title:</td>
<td>Musicianship I -- Literacy Skills</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Prior experience in reading music notation in treble or bass clef.</td>
</tr>
<tr>
<td>Description:</td>
<td>This course introduces students to basic musicianship skills. The course begins with exercises in pitch matching and basic interval recognition and progresses toward other skills, such as singing simple melodies at sight, sight-reading various rhythmic patterns, and dictating simple melodies and chord progressions. We recommend that prospective music majors, especially those with prior singing experience, skip this course and begin with MUR 113. (1 credit)</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 110</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to Music Theory</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Frank, B</td>
</tr>
<tr>
<td>Class Size:</td>
<td>30</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Ability to read music, preferably both treble &amp; bass clefs</td>
</tr>
<tr>
<td>Exams:</td>
<td>Mid-term, final, quizzes</td>
</tr>
<tr>
<td>Description:</td>
<td>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.</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 111</td>
</tr>
<tr>
<td>Title:</td>
<td>Theory I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Titus, J, Bailey, Shea, M, Frank, B</td>
</tr>
<tr>
<td>Class Size:</td>
<td>25</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>MUR 101 or MUR 110, or permission of instructor (placement test)</td>
</tr>
<tr>
<td>Exams:</td>
<td>Mid-term, final</td>
</tr>
<tr>
<td>Description:</td>
<td>The first in a four-course sequence. Deals with basic elements of harmony, voice-leading, and analysis. Part-writing in chorale style teaches elementary aspects of tonal theory. Prospective music majors should begin their theory requirement with this course. (Fall only)</td>
</tr>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 113</td>
</tr>
<tr>
<td>Title:</td>
<td>Musicianship II</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>MUR 109 or permission of theory coordinator</td>
</tr>
<tr>
<td>Description:</td>
<td>This course develops basic musicianship skills with an emphasis of diatonic sight-singing, rhythmic sight-reading, and dictation of diatonic melodies and chord progressions. The exercises and in-class activities are similar to MUR 109 but at a more advanced level. (1 credit)</td>
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<tr>
<th>Department:</th>
<th>Music</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 114</td>
</tr>
<tr>
<td>Title:</td>
<td>Musicianship III</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>MUR 113 or permission of theory coordinator</td>
</tr>
<tr>
<td>Description:</td>
<td>Continuation of MUR 113 with an emphasis on increased chromaticism, especially simple modulation and mode mixture. The course puts emphasis on ensemble singing and aural analysis. (1 credit)</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 115</td>
</tr>
<tr>
<td>Title:</td>
<td>Musicianship IV</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>MUR 114 or permission of theory coordinator</td>
</tr>
<tr>
<td>Description:</td>
<td>Continuation of MUR 114 with greater emphasis on chromaticism and aural analysis. (1 credit)</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 116</td>
</tr>
<tr>
<td>Title:</td>
<td>Keyboard Skills I</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Frank, B.</td>
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<tr>
<td>Class Size:</td>
<td>6</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td>Description:</td>
<td>Introduces students to the keyboard as a vehicle for broader musical development. Covers basic piano technique, sight-reading of simple chord progressions, realization of figured bass, and basic improvisation. No prior keyboard training required.</td>
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<tr>
<th>Department:</th>
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<tbody>
<tr>
<td>Course:</td>
<td>MUR 117</td>
</tr>
<tr>
<td>Title:</td>
<td>Keyboard Skills II</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Frank, B.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>6</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>MUR 116 or permission of instructor.</td>
</tr>
</tbody>
</table>
Restrictions: Permission of instructor required
Description: Continuation of MUR 116. Students who complete this course will fulfill the piano proficiency requirement for the music major.

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

Department: Music
Course: MUR 122
Title: History of Jazz
Cross-listed: AAS 122
Instructor: Burgett P
Prerequisites: None
Exams: two exams
Coursework: reading and listening assignments; several brief written assignments
Description: This study of jazz, as an American musical art form, will be structured around the lives and music of jazz musicians, across a range of instrumental, vocal, and ensemble genres. Less a strictly chronological approach, this course focuses first on jazz titans, those individuals and musical groups distinguished by their seminal and permanent influences, either with long tenures such as Louis Armstrong, Miles Davis, or Coleman Hawkins or shorter but intense careers, such as Charlie Parker. Integrated with the jazz titans will be consideration of the music of other important jazz musicians whose contributions are essential to helping shape and inform the vast jazz landscape of the 20th century. Blues, ragtime, swing, bebop, cool, progressive, and free jazz are landmark terms that will help define that landscape. The influence of jazz on composers in European "classical" traditions will also be considered. And finally, study of the musical history will be enhanced by considerations from sociological, linguistic, and philosophical perspectives. The instructional format includes class lectures and discussion and an intense emphasis on listening. This course is designed for students with little or no musical training; simple technical, musical vocabulary and concepts will be provided. In addition to reading and listening assignments, there will be several brief written assignments and two exams. No prerequisites. (Fall only)

Department: Music
Course: MUR 130
Title: The Beatles, The British Invasion, and Psychedelia
Cross-listed: 6MHS 282
Instructor: Covach J
Coursework: participation in all rehearsals, dress rehearsals, and concerts
Description: The history of the Beatles career and music is explored in the context of the band's stylistic development, as well as against the backdrop of social, cultural, technical, and music-business events and issues in the 1950s, 60s, and 70s. No background in music theory or ability to play a musical instrument are required.

Department: Music
Course: MUR 150
Title: Women's Glee Club
Instructor: Conkling, S.
Prerequisites: Audition
Restrictions: Permission of instructor required
Coursework: participation in all rehearsals, dress rehearsals, and concerts
Description: The women's glee club, a group of students, alumni, faculty, staff and community members, performs a wide variety of music. Joint concerts with the men's glee club and various instrumental groups within the college are regularly programmed. To join, simply register for the class. Auditions will be held during the first class.

Department: Music
Course: MUR 151
Title: Men's Glee Club
Instructor: McAuliffe, H.
Prerequisites: Audition
Coursework: participation in all regular rehearsals, dress rehearsals, and concerts
Description: The men's glee club continues the century-old tradition of singing at the University of Rochester. This group of students, faculty, staff and community members performs a wide repertoire of music. The men's and women's glee clubs regularly combine with various instrumental groups to perform large oratorio-style works. To join, simply register for the class. Auditions will be held during the first class.

Department: Music
Course: MUR 152
Title: Chamber Singers
Instructor: Georgieva, I.
Prerequisites: Audition
Restrictions: Permission of instructor required
Coursework: Participate in all regular rehearsals, dress rehearsals, and concerts
Description: Chamber singers is a select 28- to 32-member ensemble which performs a cappella and chamber music from the 14th to 21st
centuries -- and the group is as comfortable singing jazz as performing Renaissance motets. All members of the undergraduate and graduate student body are welcome to audition for the ensemble. Auditions are held every semester.

Department:  Music  
Course:  MUR 153  
Title:  Symphony Orchestra  
Instructor:  Harman D  
Class Size: 100

Prerequisites:  Limited number of players. Admission by audition only.

Coursework:  One rehearsal per week; individual practice; at least two concerts each semester

Description:  URSO (University of Rochester Symphony Orchestra) is a university-civic orchestra whose members are selected from both UR student body and greater Rochester community. The orchestra has been a vital part of Rochester's cultural community for over 52 years. Membership is granted by the music director through auditions, which occur prior to the first scheduled rehearsal of each season. Other auditions may be held as needed throughout the season. For more info, see http://www.rochester.edu/College/MUR/ensembles/ursourco/index.html.

Department:  Music  
Course:  MUR 154  
Title:  Chamber Orchestra  
Instructor:  Harman D  
Class Size: 40

Prerequisites:  Limited number of players. Admission by audition only.

Coursework:  Two rehearsals per week; individual practice. At least four concerts per academic year. Also, off-campus performances in local schools. Some touring (the orchestra has toured to Italy, Jamaica, Cayman Islands, Montreal, and Cleveland).

Description:  URCO (University of Rochester Chamber Orchestra) draws its membership primarily from UR's River Campus student body. Membership is limited and is granted by the music director through competitive auditions, which occur prior to the first scheduled rehearsal of each season. Other auditions may be held as needed during the year. For more info: http://www.rochester.edu/College/MUR/ensembles/ursourco/index.html.

Department:  Music  
Course:  MUR 155  
Title:  Chamber Ensembles  
Instructor:  Harman D  
Class Size: 20

Prerequisites:  Advanced accomplishment on an instrument or voice; permission of the coordinator (an audition may be required).

Exams:  At least once concert appearance each semester  
Coursework:  One performance each semester. Students are encouraged to obtain and promote formal or informal performances on and off campus (retirement homes, hospitals, and other venues).

Description:  The chamber music program facilitates formation and coaching of serious advanced chamber ensembles. One academic credit may be earned by registering and successfully completing all requirements listed under course work. Admission by permission of the coordinator.

Department:  Music  
Course:  MUR 156  
Title:  Wind Symphony  
Instructor:  Tiberio, W  
Class Size: 70

Prerequisites:  Admission by audition only

Coursework:  One rehearsal per week; individual practice. At least four concerts per academic year. May also be some off-campus performances locally and on tour.

Description:  Wind Symphony draws its membership primarily from the student body on River Campus and performs music of various styles, genres, and eras. Membership by audition. Attendance required at all rehearsals, dress rehearsals, and concerts, unless excused in advance by conductor.

Department:  Music  
Course:  MUR 157  
Title:  Jazz Ensemble  
Instructor:  Tiberio, W.  
Class Size: 17

Prerequisites:  Audition

Coursework:  Rehearsals (2 per week), dress rehearsals, concerts

Description:  The Jazz Ensemble is open by audition to all members of the University community. Performs a wide variety of music. Occasional guest artists and clinicians.

Department:  Music  
Course:  MUR 158  
Title:  Gospel Choir  
Instructor:  Holmes, J  
Class Size: 25

Prerequisites:  Strong sense of rhythm and pitch

Coursework:  One rehearsal per week. Two concerts per semester. In addition, there may be off-campus performances in local colleges, churches, and other venues in the greater Rochester community.

Description:  The Gospel Choir performs a varied repertoire of sacred music -- spirituals, hymns, traditional and contemporary Gospel, music of the praise-and-worship genre. Students may register for credit or
simply sing as choir participants. NOTE: There is no cap on enrollment in this ensemble.

<table>
<thead>
<tr>
<th>Department:</th>
<th>Music</th>
<th>Course:</th>
<th>MUR 159</th>
<th>Title:</th>
<th>Gamelan Ensemble</th>
<th>Cross-listed:</th>
<th>6ENS 215</th>
<th>Instructor:</th>
<th>Alajaji, S.</th>
<th>Description:</th>
<th>See course description for 6ENS 215</th>
</tr>
</thead>
</table>

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

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

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

**Department:** Naval Science  
**Course:** NAV 093  
**Title:** Introduction to Naval Science  
**Instructor:** White, John LT, USN  
**Class Size:** 35  
**Exams:** 3 Exams, Various quizzes  
**Description:** An introduction to the U.S. Navy, including organization, administration, customs, careers, warfare platforms and basic leadership fundamentals. Students are also introduced to joint warfare and national military strategy. Current world events are discussed as applicable.

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

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

Neuroscience

This course is designed to arm the student with an understanding of the fundamental theoretical concepts of leadership management, and to give students a set of practical leadership tools that can be derived from the theoretical concepts.

Neuroscience

This course explores fundamental concepts of neural organization and function. Covers gross and cellular nervous system, neuronal cell biology, the electrophysiology of neurons and synapses, neurochemistry, spinal circuitry, sensory and motor systems, and higher functions including learning and memory. Includes labs on gross anatomy of the brain and computer simulation of neuronal electrophysiology.

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Philosophy

This course is an introduction to basic issues in the philosophical investigation of ethics. Topics include general theories of the nature of right and wrong and theories of the functions of ethical language.
Department: Philosophy  
Course: PHL 103A  
Title: Moral Problems  
Class Size: 100  
Description: An analysis of contemporary issues, including hunger, world poverty, abortion, sexual morality, animal rights, environmental ethics, and the death penalty. 103A is not a prerequisite for 103B.

Department: Philosophy  
Course: PHL 105  
Title: Reason and Argument  
Description: Arguments are used both to try to persuade people and to try to establish the truth about a topic. In this course we will examine these different uses of arguments and then examine in detail the criteria for assessing arguments. We will then develop a method for identifying, interpreting, and evaluating arguments of the sort you found in speeches, newspaper editorials, letters to the editor, magazine articles, and scientific reports.

Department: Philosophy  
Course: PHL 110  
Title: Introductory Logic  
Class Size: 30  
Description: Philosophy 110 is a first course in symbolic logic through first order quantification theory. It treats deductive inference through the mechanism of an artificial language; the language is rigorously defined, and students learn to translate English arguments into this artificial language, to construct proofs in this language using a rigorously defined stock of inference rules, and to use models to show the invalidity of arguments.

Department: Philosophy  
Course: PHL 111  
Title: Philosophy of Religion  
Cross-listed: REL 111  
Instructor: Wierenga, E.  
Class Size: 30  
Description: See Religion and Classics, REL 111.

Department: Philosophy  
Course: PHL 115  
Title: Philosophy in Literature  
Instructor: Meerbote, R.  
Class Size: 30  
Exams: There may be a final exam.  
Coursework: Three short papers.  
Description: In this course we will be studying philosophical issues concerning morality, human action, and happiness, as seen by three 18th-century and several later writers. We will read works by Defoe, Voltaire, Lessing, Shelley, Gide, and Camus. The course readings are literary, but our discussions and methods will be analytical-philosophical. There will be both lectures and in-class discussions.

Department: Philosophy  
Course: PHL 145Q  
Title: Minds and Machines  
Class Size: 21  
Restrictions: Open to freshmen only  
Description: What is it to have a mind? Does the mind have boundaries (for example, the boundaries of the brain)? How could creatures like us exhibit such a phenomenon as consciousness? Could we build a robot that was able to experience the world in the same way we do? This course will introduce students to the way that philosophers think about the mind, harnessing contemporary work in brain and cognitive science to help us answer these questions. No prior background in either philosophy or cognitive science is presupposed. This course will be largely discussion-oriented.

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

Department: Philosophy  
Course: PHL 214  
Title: Logical Methods in Philosophy  
Cross-listed: PHL 414  
Prerequisites: PHL 110 or 210  
Description: This course is an introduction to the aims and techniques of modal logic and the logic of counterfactuals, with emphasis on the model theory (“possible world semantics”) and application in philosophy. Topics to be covered include modal propositional logic and applications, e.g. logics of necessity and possibility, tense logic, the logic of counterfactuals, and modal predicate logic.

Department: Philosophy  
Course: PHL 223  
Title: Social and Political Philosophy
<table>
<thead>
<tr>
<th>Cross-listed:</th>
<th>PHL 223W, PHL 423</th>
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<tbody>
<tr>
<td>Prerequisites:</td>
<td>One previous course in philosophy.</td>
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<tr>
<td>Description:</td>
<td>This course will discuss a number of fundamental issues pertaining to the nature and justification of government: the arguments for government, conflict and revolution, relations between church and state, the moral relations of individuals to government, concepts of individual freedom, the arguments for democracy, and justice in the production and distribution of goods. Students will read from the works of several of the most important philosophers who have addressed these questions. This course may be taken for upper-level writing credit.</td>
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<th>Department:</th>
<th>Philosophy</th>
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<tr>
<td>Course:</td>
<td>PHL 225</td>
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<tr>
<td>Title:</td>
<td>Ethical Decisions in Medicine</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Dees, R.</td>
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<tr>
<td>Exams:</td>
<td>Final examination</td>
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<tr>
<td>Coursework:</td>
<td>You must sign up for one of the three discussion sections as well as the lecture to enroll in the class. You will be required to write three short papers.</td>
</tr>
<tr>
<td>Description:</td>
<td>Medicine now produces some of the most troubling ethical questions that our society faces. We are now confronted with extremely premature infants, elderly people incapacitated by Alzheimer's Disease, and others have sunk into permanent vegetative state. We can now diagnose horrible diseases with genetic testing, we have a myriad of options of reproduction if the old-fashioned way is not possible, and we now have the option to replace the failing organs and even to enhance our mental and physical abilities. Lying behind all these issues are deep questions about social justice in the allocation of resources of health care. In this class, we will examine some of these ethical controversies, both in lectures and in small groups in which students will have more opportunity to present their own views and explore those of others. The class will meet for 50 minutes twice a week in the TR 9:40-10:55 slot, and then each student should attend one of the three discussion sections (one will be held R afternoon, two on Friday).</td>
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<th>Department:</th>
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<td>Course:</td>
<td>PHL 228</td>
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<tr>
<td>Title:</td>
<td>Public Health Ethics</td>
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<tr>
<td>Instructor:</td>
<td>Dees, R.</td>
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<tr>
<td>Prerequisites:</td>
<td>One previous course in philosophy.</td>
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<tr>
<td>Class Size:</td>
<td>30</td>
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<tr>
<td>Coursework:</td>
<td>Three papers, weekly responses, class participation.</td>
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<tr>
<td>Description:</td>
<td>Most health care ethics focuses on the individual decisions about health care, but many ethical questions have implications for society at large. The demands that individual health decisions make on the system may create collective problems, and conversely, the needs of society may limit the freedoms that individuals think they should have. Public health ethics then, lie at the intersection of medicine, political philosophy, and public policy. This course will examine the values of health, social needs, and freedom through a systematic examination of situations in which these conflicts arise.</td>
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<td>Course:</td>
<td>PHL 244</td>
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<tr>
<td>Title:</td>
<td>Philosophy of Mind</td>
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<tr>
<td>Cross-listed:</td>
<td>PHL 244/PHL 244W/PHL 444</td>
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<tr>
<td>Instructor:</td>
<td>Weslake, B.</td>
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<tr>
<td>Prerequisites:</td>
<td>One previous course in philosophy.</td>
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<tr>
<td>Exams:</td>
<td>None</td>
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<tr>
<td>Coursework:</td>
<td>Two papers and one presentation.</td>
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<tr>
<td>Description:</td>
<td>This course is an overview of the recent history of philosophy of mind, focusing on the relationship between the mind and the physical world. The aim is to trace through some of the central debates in this history, and to assess where we stand today. Topics covered include the question of how to formulate physicalism about the mind; an examination of behaviorism, the identity theory, and functionalist theories of the mind; the prospects for integrating consciousness and mental content within a physicalist worldview; and the problem of mental causation. This course may be taken for upper level writing credit.</td>
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<th>Department:</th>
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<td>Course:</td>
<td>PHL 251</td>
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<tr>
<td>Title:</td>
<td>Philosophy of Biology</td>
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<tr>
<td>Cross-listed:</td>
<td>PHL 251W, PHL 451</td>
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**Instructor:** Weslake, B.  
**Class Size:** 30  
**Prerequisites:** PHL 110 or permission of instructor.  
**Description:** This course is an introduction to philosophy of biology focusing on issues connected with the nature and scope of biological explanations. Possible topics include the nature of fitness, natural selection and drift; whether there are biological laws and if so what form they take; the degree to which evolutionary outcomes are contingent; the varieties of biological explanation; whether there is more than one level of selection; the nature of biological function; and the scope of adaptationist explanations. No prior philosophy of science or biology will be assumed. This course may be taken for upper level writing credit.

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

**Department:** Philosophy  
**Course:** PHL 266  
**Title:** Rationalism  
**Cross-listed:** PHL 266/466  
**Instructor:** Meerbote, R.  
**Prerequisites:** PHL 202.  
**Exams:** There may be a final exam.  
**Coursework:** Several papers.  
**Description:** We will study Descartes, Spinoza, and Leibniz, 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 348  
**Title:** Free Will  
**Instructor:** Conee, E.  
**Class Size:** 15  
**Prerequisites:** Philosophy Minor or Major.  
**Description:** This course will be an investigation of proposed answers to the classical philosophical issues concerning free will. These questions include: What is free will? Is free will compatible with determinism? Is determinism compatible with moral responsibility? Readings will be from primarily contemporary philosophical sources.

### Physics and Astronomy

**Department:** Physics and Astronomy  
**Course:** PHY 102  
**Title:** Visions of the Multiverse  
**Instructor:** Manly, S.  
**Description:** This is an introductory course designed especially for students in the humanities and other non-scientific fields who are interested in learning about science, physics, and concepts (esp. scientific concepts) of a multiple universe reality. Topics include the nature of science, Newton's laws, relativity, light, quantum mechanics, the nature of particles and forces, and cosmology. In the course of surveying the modern scientific view of the universe, a number of serious concepts of a multi-universe reality will be examined, including the many-worlds view of quantum mechanics, and fractal and cyclical cosmologies. 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. This course is intended to be equivalent to Physics 100 in terms of satisfying cluster requirements. Students will register for recitation or workshops at the time of course registration.

**Department:** Physics and Astronomy  
**Course:** PHY 113  
**Title:** General Physics I  
**Instructor:** Bodek, A  
**Class Size:** 200  
**Prerequisites:** MTH 141 or MTH 161 (may be taken concurrently)  
**Coursework:** Five three-hour laboratories are required, as are weekly workshop or recitations. Workshop or recitation times are determined by the instructor.  
**Description:** First course of a two-semester sequence suitable for students in the life sciences. Newtonian particle mechanics, Newton's laws and their applications to straight-line and circular motions, energy, linear momentum, angular momentum, harmonic motions, Kepler's laws, planetary and satellite motions. Students must register for a PHY-113 laboratory during course registration. Calculus used and introduced as needed. In addition to a Two 75-minute lectures, one approximate two-hour and forty-minute laboratory every other week and one workshop or recitation per
### PHY 122: Electricity and Magnetism

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

### PHY 141: Mechanics (Honors)

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

### PHY 142: Electricity and Magnetism (Honors)

**Department:** Physics and Astronomy  
**Course:** PHY 142  
**Title:** Electricity and Magnetism (Honors)  
**Instructor:** Teitel, S.  
**Class Size:** 40  
**Prerequisites:** Phy 141 or performance at or above the B- level in PHY 121, MTH 162 or MTH 172 or the equivalent (may be taken concurrently)  
**Coursework:** Five three-hour laboratories are required, as are weekly workshops or recitations.  
**Description:** Third semester of a three-course honors sequence (PHY 141, 143,142) honors sequence, recommended for prospective departmental concentrators and other science or engineering students with a strong interest in physics and mathematics. Topics are the same as those of P122 but in greater depth. These topics include Coulomb's Law through Maxwell's equations; electrostatics, electrical potential; capacitors; electric fields in matter; current and circuits; magnetostatics; magnetic fields in matter; induction; A.C. circuits; electromagnetic waves. Students are required to register for PHY 142/122 Laboratory and workshop or recitation at the time of course registration. In addition to Two 75-minute lectures each week, one workshop/recitation each week and one approximate two-hour and forty-minute laboratory every other week are required.

### PHY 181: Mechanics Laboratory

**Department:** Physics and Astronomy  
**Course:** PHY 181  
**Title:** Mechanics Laboratory  
**Instructor:** MCFarland, K.  
**Coursework:** Laboratories experiments in Mechanics, statistics and measurement, acceleration of gravity, conservation of energy and momentum, moment of inertia, oscillations, and mechanical equivalent of heat. Students must contact physlabs@pas.rochester.edu to signup for a laboratory section.

### PHY 182: Electricity & Magnetism Laboratory

**Department:** Physics and Astronomy  
**Course:** PHY 182  
**Title:** Electricity & Magnetism Laboratory  
**Instructor:** MCFarland, K  
**Class Size:** 16  
**Prerequisites:** For transfer students who have taken the equivalent of PHY 113 or PHY 121, but have not taken laboratories.  
**Description:** Laboratory experiments in electricity and magnetism, Coulomb's Law, electric fields, measurement of the absolute voltage and capacitance, electricity and magnetism of the electron, superconductivity and electric circuits. Not open to students who have taken PHY 122. Students must contact Laboratory Administrator at physlabs@pas.rochester.edu to signup for a laboratory.
Course: PHY 217  
Title: Electricity and Magnetism I  
Instructor: Thorndike, E  
Class Size: 20  
Prerequisites: PHY 122 or 142; and MTH 281 (may be taken concurrently).  
Description: Review of vector calculus; electrostatic field and potential; boundary value problems solved with orthogonal functions; the multiple expansion and dielectrics; the magnetic field and vector potential.

Course: PHY 235W  
Title: Classical Mechanics I  
Instructor: Cline, D  
Prerequisites: MTH 281 or ME 201 (may be taken concurrently); Physics 121 or 141  
Description: Mathematical introduction; review of elementary mechanics; central force problems; conservation theorems and applications; Fourier and Green's functions; variational calculus and Lagrange multipliers; Lagrangian and Hamiltonian formulation of mechanics is introduced and applied; oscillations; normal modes. The course is designed to satisfy part of the upper-level writing requirement.

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

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

Course: PHY 245W  
Title: Advanced Experimental Techniques in Nuclear, Particle and Electron Spin Resonance  
Instructor: Howell, J  
Class Size: 10  
Prerequisites: PHY 217, 237, and MTH 164 (may be taken concurrently).  
Description: Similar to PHY 243W, except with experiments that have applications in the Medical Physics. The four experiments are: *of Muon *Spin Resonance/Magnetic Resonance Imaging *Hertz Experiment or Hall Effect *Spectroscopy (This course can be used to satisfy part of the upper-level writing requirement. (Cross-listed with PHY445)

Course: PHY 254  
Title: 20th Century Particle Physics  
Instructor: Garcia-Bellido, A.  
Prerequisites: PHY 237.  
Description: This course is designed for physics majors interested in nuclear and particle physics. The course describes the properties of the nuclei and various models used to describe nuclear matter, including the liquid drop model, shell model, collective model, radioactivity, fission, and fusion. Properties of particle interactions with matter are covered, and used to describe the principles of detections used in nuclear and particle experiments. In addition, the principle of operation of various existing accelerators are discussed. Finally, the fundamental interactions of elementary particles and their consitutents are reviewed, with emphasis on conservation of quantum numbers and symmetries observed in high-energy collisions.

Course: PHY 311A  
Title: Mechanics & Chaotic Dynamics  
Instructor: Jordan, A.  
Restrictions: Permission of instructor required  
Description: This course is the first 6 weeks of the Graduate course Physics 411. Lagrangian and Hamiltonian dynamics, canonical transformations, Hamilton-Jacobi equations, chaotic dynamics and routes to chaos, Fourier spectrum and Poincare's maps, Lyapunov exponents, strange attractors and fractal dimensions, information dimension and Kolmogorov entropy, numerical tests for chaotic behavior. Prerequisite: PHY235W. (Sept. 1 to Oct.
15) It is a 2 credit course. For more information on this course contact the instructor.

Department: Physics & Astronomy
Course: PHY 327
Title: Radiobiology I
Instructor: Keng, P.
Description: This 2-credit course evaluates the effects of radiation in mammalian cell systems ranging from cell cultures to whole animals. Emphasis is on the application of radiobiological principles to radiotherapy practices in the clinical treatment of cancer. Topics include: Mechanism of radiation damage and repair, cell cycle effects, influence of oxygen, and tumor versus normal tissue effects of radiation. (Cross-listed with PHY467). (Course offered every other Fall, alternates with PHY325/PHY465).

Department: Physics and Astronomy
Course: PHY 331
Title: Intro. to Quantum Optics
Instructor: Stroud, C.
Prerequisites: Contact instructor.
Restrictions: Permission of instructor required
Description: This course is a 2-credit version of the corresponding graduate-level course PHY 531/OPT 551. The course is offered the first half of the semester and is identical to the first half of the graduate course.

Department: Physics and Astronomy
Course: PHY 354
Title: Cosmology
Instructor: Frank, A.
Restrictions: Permission of instructor required for undergraduates
Description: Introduction to cosmology, covering the following broad topics: Introduction to the universe, introduction to general relativity, cosmological models and the Fridemann-Walker universe, and thermodynamics of the early universe. This is a two credit course consisting of the first half of AST554/PHY554.

Department: Physics & Astronomy
Course: PHY 386
Title: Teaching Internship I, Pedagogy Training
Instructor: Manly
Restrictions: Permission of instructor required
Description: This course is designed for an undergraduate planning to be a Workshop Leader, Laboratory or Recitation Teaching Intern (TI), and who plans to use this experience to fulfill part of the requirements for the Citation for achievement in College Leadership. The TI is expected to attend the weekly Leader Training meeting which offers specialized support and feedback, as well as training/seminars in group dynamics, learning theory, and science pedagogy. The TI teaches one workshop, laboratory, or recitation in the fall semester introductory dynamics, learning theory, and science pedagogy. The TI teaches one workshop, laboratory, or recitation in the fall semester introductory physics courses: PHY 113, PHY 122, PHY 141 or PHY 142. Additional requirements are: Attendance of weekly content meetings with supervising professor, giving feedback to other leaders in a constructive evaluation process and a project designed in concert with the supervising professor and the PHY 386 instructor. (Course similar to CAS 352). Note: Students are required in April or August, to attend a two-day rigorous training program. Students prepare and present short model recitation and are video taped for self-evaluation.

Department: Physics and Astronomy
Course: PHY 390
Title: Supervised Teaching
Instructor: Manly, S., Demina, R., Bigelow, N
Prerequisites: Permission of the instructor and department
Description: Two credit course. Introduction to the techniques of physics instruction, active observation, and participation in the teaching of an undergraduate course under the guidance of a faculty member.

Department: Physics and Astronomy
Course: AST 102
Title: Black Holes, Time Warps and the Large-Scale Structure of the Universe
Instructor: Watson, D.
Class Size: open
Prerequisites: High school math through intermediate algebra. No physics prerequisites.
Exams: Three in-class exams.
Coursework: Six homework assignments, all of which involve the Computer Aided Personalized Assignment (CAPA) system.
Description: We present a physical and astronomical (but non-mathematical) picture of the workings of Einstein's theory of relativity, and its application to cosmology and to black holes and wormholes, the most exotic and energetic objects known to scientists. Our aim is twofold: (1) to demystify black holes, big-bang cosmology, and the nature of space and time for non-science majors, to enable them to evaluate critically the frequent references to these exoteric concepts in the press and in popular science and science-fiction literature; and (2) to provide non-science majors with a
glimpse of the processes by which scientific theories are conceived and advanced. In the course we make heavy use of computer-generated graphics and simulations during lectures.

Department: Physics and Astronomy
Course: AST 111
Title: The Solar System and Its Origin
Instructor: Mamajek, E.
Prerequisites: High school physics, MTH 141 or MTH 161, may be taken concurrently.
Coursework: Laboratory required and included. Recitations available.
Description: In astronomy 111 we will become familiar with the tools, methods and concepts of astronomy, and begin study of the observational basis for understanding the solar system. One way to describe the level of the course is to say that we will go as far as single-variable calculus, classical mechanics, Newton's law of gravity, and the ideal-gas law will take us. We will discuss the structure and composition of the individual planets and many smaller solar-system bodies, as well as the orbital dynamics and overall structure of the solar system. Astronomy 111 has no formal prerequisites, but the course is intended for science majors who have had beginning calculus or are taking it concurrently. We will thus use mathematical formulations of physics to describe planetary phenomena.

Department: Physics and Astronomy -- Astronomy
Course: AST 232
Title: The Milky Way Galaxy
Instructor: Blackman, E.
Prerequisites: Familiarity with PHY 235W and AST 142 is advised.
Restrictions: Not open to freshmen and sophomores
Coursework: Can be used as an upper level writing course see 232W.
Description: Stellar motions; stellar distances; celestial mechanics; galactic structure; cluster evolution; fundamental equations of stellar statistics. (alternates with A203/A403)

Department: Political Science
Course: PSC 101
Title: Introduction to Comparative Politics
Cross-listed: IR 101
Instructor: Powell, G.B.
Restrictions: Open to freshmen only
Description: This course will introduce students to comparative politics - the study of domestic political institutions, processes, and outcomes across and within countries. These important themes and concepts of contemporary comparative politics include the vibrancy of democracy, the centrality of political and electoral institutions, the possibility of revolution and the power of ethnicity. Cases will be drawn from different countries and historical periods to give students a grounding in the method of comparative analysis. This course is recommended for those thinking about a major, minor, or cluster in Political Science, or international relations, and others who are simply interested in learning more about the politics of developed and developing countries. It is a required course for the International Relations major.

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

Department: Political Science
Course: PSC 105
Title: Introduction to American Politics
Instructor: Sinclair-Chapman, V.
Description: This course will introduce students to the foundations of American government. Students will examine important political institutions and the linkage mechanisms that connect institutions, political actors, and ordinary American citizens. This course is appropriate for majors and non-majors with an interest in understanding how and why the American political system works
as it does. Students will be graded on two midterms, a final exam, and short writing assignments.

Department: Political Science
Course: PSC 201
Title: Political Inquiry
Instructor: Clarke, K.
Description: This course introduces students to data analysis in political science. We begin by learning how to describe political data, and then move on to making inferences about political phenomena. Along the way, we address the "science" in political science and the development of hypotheses about political behavior. We will read published research from political science journals that use the techniques we discuss in class. No mathematical knowledge beyond high school algebra is assumed. PSC 201 satisfies the Techniques of Analysis requirement for undergraduate majors and minors in Political Science.

Department: Political Science
Course: PSC 216
Title: Legislative Politics
Cross-listed: 216W
Instructor: Sinclair Chapman, V.
Description: This course will examine Congress in its dual roles as both a national lawmaking institution and as the nexus of public representation in the policymaking process. We will survey some of the major theories and concepts used to understand and explain the operation of Congress and the behavior of its members. Students will gain a basic understanding of Congress through an examination of the role Congress plays in policymaking and representation, the formal rules that govern its operation, and the interaction that takes place between Congress and other political actors. This course is writing intensive and is most appropriate for juniors and seniors. Students will be graded on class participation, short writing assignments, and a research paper.

Department: Political Science
Course: PSC 211
Title: Public Opinion and Voting
Cross-listed: PSC 211W
Instructor: Niemi, R.
Exams: midterm and final exam
Description: Through lecture, readings, and discussion, we will consider major questions involving public opinion and voting. How much do citizens know about government and politics? Does participation make a difference? Do elected officials do what the public wants? We will pay special attention to generational matters. Today's young people (that's you) are said to be uninterested and uninvolved in politics, yet voluntary community service has never been higher. How do we reconcile these facts, and what do we make of it? We will also cover sampling techniques and the interpretation of poll results: when you hear that 70% of the respondents to a national survey support gun control, can you believe it? What else do you need to know in order to interpret results?
Description: In this course, through the lens of the Constitution and Supreme Court cases, we examine the essential structure of the American legal system (both separation of powers at the federal level and the authority of, and relationship among, states and the federal government), as well as the essential nature of civil rights of citizens vis--à-vis the political order. Topics covered include the nature of the Supreme Courts authority; separation of powers; federal limits on state powers; and individual rights, including economic rights, certain of the rights embraced by the First, Fourth, and Fifth Amendments, and due process and equal protection rights under the Fourteenth Amendment. The ability to read and discuss (as well as place in perspective and disagree with) Supreme Court opinions is an essential part of the course.

Exams: Midterm and final exams

Description: An examination of environmental issues from a social scientific perspective. Topics include the reasons for environmental regulation, the history of environmental policy, the state of contemporary environmental policy, the role of state and local governments, the impact of environmental activists, and a comparison of domestic and international regulation of environmental affairs. Although there is considerable time devoted to lecture, students are encouraged to participate. Each student will also develop and briefly present a research paper which investigates a relevant issue of interest.

Department: Political Science
Course: PSC 261
Title: Latin American Politics
Cross-listed: PSC 261W, IR 261, IR 261W
Instructor: Helmk, G
Description: This course provides an introduction to political institutions and institutional reform in contemporary Latin America. The central theme of the course will be to focus on the emergence and functioning of key political institutions in Latin America, including the presidency, the legislature, the system of electoral rules, political parties, the judiciary, and the bureaucracy. The course will draw on a broad range of theoretical perspectives to analyze institutional choice and performance. In addition, the course will consider competing definitions of institutions, evaluate the trade-offs posed by institutional choice, and consider the prospects for institutional reform in the region.
**Mechanisms of International Relations**

**Cross-listed:** PSC 270W, IR 270, IR 270W

**Instructor:** Goemans, H.

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

---

**International Political Economy**

**Cross-listed:** IR 274

**Instructor:** Vashchilko, T.

**Description:** This course explores the interaction between politics and economics at the international level as well as between the international and domestic levels, involving various actors such as governments, interest groups, and multinational corporations. As an interdisciplinary field related to both international politics and international economics, international political economy examines the management and openness of the international economy, the determinants of foreign economic policy-making on topics such as trade, foreign exchange, capital controls, the politics of economic development, the effects of domestic political competition on international trade and capital flows, the determinants of regional integration, as well as the spread or containment of international financial crises. Students are expected to complete oral and written assignments which are designed to help them develop their problem solving, writing and presentation skills.

---

**Domestic Politics and International Conflict**

**Cross-listed:** PSC 276W, IR 276, IR 276W

**Instructor:** Debs, A.

**Restrictions:** Not open to freshmen

**Description:** Domestic institutions affect the way in which political conflict is arbitrated. We study basic models of domestic politics and ask whether domestic institutions determine foreign policies (for example, are democracies more peaceful than dictatorships?). The course introduces some elementary concepts of game theory, with an emphasis on applications in comparative politics and international relations.

---

**War and Nation State**

**Cross-listed:** PSC 479

**Instructor:** Goemans, H.

**Exams:** final exam

**Coursework:** Student presentations on class readings

**Description:** This course examines the development of warfare and the growth of the state from the French Revolution to the end of the Second World War. We examine the phenomenon of war in its broader socio-economic context, focusing on nationalism, bureaucratization, industrialization and democratization. We will go into some detail on the two major conflicts of the twentieth century, the First and Second World Wars. Students are required to do all the reading. I have constructed a web page with additional information and links: http://www.duke.edu/~hgoemans/WWI.htm. Every student will make a presentation in class on the readings for one class (25% of the grade), and there will be one big final (75%)

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**Game Theory**

**Cross-listed:** ECO 288

**Instructor:** Barelli, P.

**Description:** See description for ECO 288

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**Comparative Politics Field Seminar**

**Cross-listed:** PSC 550, IR 350

**Instructor:** Powell, G.B., Helmke, G.

**Restrictions:** Permission of instructor required

**Description:** This course provides general conceptual background and an introduction to some major works in the comparative field and subfields. Comparative politics is a field that attempts to develop
and test theories that can be used to explain political events and patterns across political systems, especially nation-states. Topics include political culture, development and democratization, political regimes, violence and revolution, elections, social movements, parties, coalitions, institutions, and comparative public policy. The works are discussed and compared both in terms of the major substantive arguments and the methodological approaches taken to enhance the credibility of the arguments. The reading load is heavy and students are expected to write a number of short papers, which are presented in class, as well as a midterm and one longer analytic essay. The class is intended primarily for graduate students but is open, upon instructor approval, to upper-level undergraduates who have shown both extraordinary promise and strong interest in comparative politics.

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

Department: Political Science
Course: PSC 394
Title: Local Law and Politics Internships
Instructor: Powell, L.
Description: Most internship placements are in the District Attorney's or Public Defender's offices. Occasionally one or two other law placements are available. Students may also propose an alternative political or law placement. Interns work 10-12 hours per week through the entire semester. Grades are primarily based on a research paper. Applicants should have an appropriate course background for the internship and at least a B average. Students must be accepted in the course before approaching an agency for an internship. Students interested in an internship should pick up an application in the Political Science office (Harkness 333). Applications are available a week before registration starts, and an interest meeting is also held at that time.

Department: Political Science
Course: PSC 397
Title: European Political Internships
Instructor: Powell, L.
Description: Internships are available for students in Edinburgh, London, Brussels, Bonn, Berlin and Madrid. Internships are in English in Edinburgh, London, and Brussels: students need proficiency in the language for the latter four placements. For applications and information, students should contact the Study Abroad Office in Lattimore 206.

International Relations

Department: International Relations
Course: IR 101
Title: Introduction to Comparative Politics
Instructor: Powell, G.B.
Description: Please see PSC 101 for the course description.

Department: International Relations
Course: IR 220
Title: Non-State Actors in World Politics
Instructor: Vashchilko, T.
Description: Global foreign direct investment inflows reached a record $1,833 billion in 2007 (UNCTAD 2008). Roughly half of the world's largest 200 governing entities are multinational corporations (MNCs). Crossing the boundaries between theories of international political economy, globalization, international business, and development, this course offers an introduction to the international political economy of MNCs and their interaction with governments. The main themes cover theories to explain why firms invest abroad, the effects of foreign direct investments on domestic and foreign policy, the bargaining between MNCs and host governments, the expropriation of assets by host countries, dependency, corporate political activities, and the regulation of foreign investment. Students are expected to complete weekly reading assignments, contribute to class discussion, and design a semester-long research project.

Department: International Relations
Course: IR 222
Title: Preventive Wars
Instructor: Helmke, G.
Description: Prevention is perhaps the most common justification for war. Both world wars, and more recently the invasion of Iraq and concerns over Chinas economic and military rise, illustrate its historical and present relevance. In this seminar, we analyze the theory, history, and practice of preventive wars. Wars fought to avoid negotiating in a position of weakness in the future. When
and why do states fight them, and what lessons can we draw from
history to avoid them in the future?

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<thead>
<tr>
<th>Department</th>
<th>International Relations</th>
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<tbody>
<tr>
<td>Course</td>
<td>IR 225</td>
</tr>
<tr>
<td>Title</td>
<td>International Negotiations</td>
</tr>
<tr>
<td>Instructor</td>
<td>Chadeffaux, Thomas</td>
</tr>
<tr>
<td>Description</td>
<td>This lecture analyzes the logic and practice of international negotiations. What strategies do states use? What works, what does not and why? And, how can we learn from theory and history to advise current negotiators? The course relies heavily on game-theoretic notions but doesn't require any proper exposure to mathematical background. Commitment, credibility and bargaining power are some of the concepts that will be central in this class. Applications to the real world (WTO, crisis negotiations) will be particularly emphasized to illustrate the theoretical notions introduced.</td>
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<tr>
<th>Department</th>
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<tbody>
<tr>
<td>Course</td>
<td>IR 261</td>
</tr>
<tr>
<td>Title</td>
<td>Latin American Politics</td>
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<td>Cross-listed</td>
<td>IR 261W, PSC 261, PSC 261W</td>
</tr>
<tr>
<td>Instructor</td>
<td>Helmke, G.</td>
</tr>
<tr>
<td>Description</td>
<td>Please see PSC 261 for the course description.</td>
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<tr>
<td>Course</td>
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<td>Title</td>
<td>Mechanisms of International Relations</td>
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<tr>
<td>Cross-listed</td>
<td>PSC 270W, PSC 270, IR 270W</td>
</tr>
<tr>
<td>Instructor</td>
<td>Goemans, H.</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>PSC 106 or other IR course</td>
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<td>Description</td>
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<tr>
<td>Course</td>
<td>IR 274</td>
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<tr>
<td>Title</td>
<td>International Political Economy</td>
</tr>
<tr>
<td>Cross-listed</td>
<td>PSC 274</td>
</tr>
<tr>
<td>Instructor</td>
<td>Vashchilko, T.</td>
</tr>
<tr>
<td>Description</td>
<td>Please see PSC 274 for the course description.</td>
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<tbody>
<tr>
<td>Course</td>
<td>IR 276</td>
</tr>
<tr>
<td>Title</td>
<td>Domestic Politics And International Conflict</td>
</tr>
<tr>
<td>Cross-listed</td>
<td>IR 276W, PSC 276, PSC 276W</td>
</tr>
<tr>
<td>Instructor</td>
<td>Debs, A.</td>
</tr>
<tr>
<td>Description</td>
<td>Please see PSC 276 for the course description.</td>
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<tbody>
<tr>
<td>Course</td>
<td>PSY 101</td>
</tr>
<tr>
<td>Title</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>Instructor</td>
<td>Niemiec, C.</td>
</tr>
<tr>
<td>Class Size</td>
<td>Open</td>
</tr>
<tr>
<td>Restrictions</td>
<td>Open to freshmen only</td>
</tr>
<tr>
<td>Description</td>
<td>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.</td>
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<tr>
<th>Department</th>
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<tbody>
<tr>
<td>Course</td>
<td>PSY 110</td>
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<tr>
<td>Title</td>
<td>Neural Foundations of Behavior</td>
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<tr>
<td>Cross-listed</td>
<td>BCS 110</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Pouget, A., Holtzman, D.</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>Description:</td>
<td>Same as BCS 110. See description in Brain &amp; Cognitive Sciences listing. The course satisfies one of the natural science courses required for the PSY concentration.</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 151</td>
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<tr>
<td>Title:</td>
<td>Perception and Action</td>
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<tr>
<td>Cross-listed:</td>
<td>BCS/CVS 151</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Tadin, D.</td>
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<tr>
<td>Prerequisites:</td>
<td>PSY/BCS 110 or BCS 111 or PSY/BCS 112</td>
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<td>Description:</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 152</td>
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<tr>
<td>Title:</td>
<td>Language and Psycholinguistics</td>
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<td>Instructor:</td>
<td>Jaeger, F.</td>
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<tr>
<td>Prerequisites:</td>
<td>PSY/BCS 110 OR 112</td>
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<td>Description:</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 171</td>
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<tr>
<td>Title:</td>
<td>Social and Emotional Development</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Sturge-Apple, M.</td>
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<tr>
<td>Description:</td>
<td>See CSP 171. Same as Clinical and Social Sciences in Psychology course description listing.</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 181</td>
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<tr>
<td>Title:</td>
<td>Theories of Personality &amp; Psychotherapy</td>
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<td>Cross-listed:</td>
<td>CSP 181</td>
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<td>Description:</td>
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<td>Department:</td>
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<td>Course:</td>
<td>PSY 205</td>
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<tr>
<td>Title:</td>
<td>Lab in Development and Learning</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>BCS 205</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Aslin, R.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>BCS 200 (or approved course in statistics) and one of PSY 151, 152, 153, 172, or equivalent background with approval of instructor</td>
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<tr>
<td>Description:</td>
<td>Same as BCS 205. See description in Brain &amp; Cognitive Sciences listing.</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 211</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to Statistical Methods in Psychology</td>
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<tr>
<td>Cross-listed:</td>
<td>CSP 211</td>
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<tr>
<td>Description:</td>
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<tr>
<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 219W</td>
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<tr>
<td>Title:</td>
<td>Research Methods in Psychology</td>
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<tr>
<td>Instructor:</td>
<td>Thrash, T.</td>
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<tr>
<td>Cross-listed:</td>
<td>CSP 219W</td>
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<tr>
<td>Prerequisites:</td>
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<tr>
<td>Description:</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 246</td>
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<tr>
<td>Title:</td>
<td>The Biology of Mental Disorders</td>
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<tr>
<td>Cross-listed:</td>
<td>BCS/NSC 246</td>
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<tr>
<td>Instructor:</td>
<td>Kellogg, C., Como, P.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>BCS 110, BCS 240 (NSC 201) or equivalent background.</td>
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<tr>
<td>Description:</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 263</td>
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<tr>
<td>Title:</td>
<td>Relationship Process and Emotions</td>
</tr>
<tr>
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<td>CSP 263</td>
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<tr>
<td>Instructor:</td>
<td>Reis, H.</td>
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<tr>
<td>Description:</td>
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<td>Department:</td>
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<tr>
<td>Course:</td>
<td>PSY 264</td>
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<tr>
<td>Title:</td>
<td>Industrial and Organizational Psychology</td>
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<tr>
<td>Cross-listed:</td>
<td>CSP 264</td>
</tr>
<tr>
<td>Exams:</td>
<td>3 exams</td>
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<td>Description:</td>
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<td>Department:</td>
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<td>Course:</td>
<td>PSY 267</td>
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<tr>
<td>Title:</td>
<td>Psychology of Gender</td>
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<td>Cross-listed:</td>
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<td>Description:</td>
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<tr>
<td>Course:</td>
<td>PSY 289</td>
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<tr>
<td>Title:</td>
<td>Developmental Child Psychopathology</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Davies, P.</td>
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<tr>
<td>Prerequisites:</td>
<td>PSY 171</td>
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<tr>
<td>Description:</td>
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<tr>
<td>Course:</td>
<td>PSY 301W</td>
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<tr>
<td>Title:</td>
<td>Teaching Psychology</td>
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<td>CSP 301W</td>
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<tr>
<td>Instructor:</td>
<td>Niemiec, C.</td>
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<td>Restrictions:</td>
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<tr>
<td>Course:</td>
<td>PSY 310W</td>
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<td>Title:</td>
<td>Honors Research</td>
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<td>Cross-listed:</td>
<td>CSP 310W</td>
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<td>Restrictions:</td>
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<tr>
<td>Course:</td>
<td>PSY 351</td>
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<tr>
<td>Title:</td>
<td>Research in Developmental Neuropsychology</td>
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<tr>
<td>Instructor:</td>
<td>Bennetto, L.</td>
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<tr>
<td>Prerequisites:</td>
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<th>Religion &amp; Classics</th>
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<tr>
<td>Department: Religion &amp; Classics</td>
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<tr>
<td>Course: REL 101</td>
</tr>
<tr>
<td>Title: Introduction to the Old Testament</td>
</tr>
<tr>
<td>Cross-listed: JST 106</td>
</tr>
<tr>
<td>Instructor: Merideth, A.</td>
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<tr>
<td>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</td>
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</table>
the texts of the Hebrew Bible as we would any other historical documents. Students will be exposed to the methods of modern biblical scholarship as well. No previous knowledge of the Hebrew Bible or of Judaism is presupposed. Requirements for the course include one paper analyzing a biblical text, a midterm quiz, and a final exam. Upper-level writing credit available (REL 101W).

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

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

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

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

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

Department: Religion & Classics
Course: REL 157
Title: African American Religious History
Cross-listed: AAS 185
Instructor: Butler, A.
Description: Religion is an integral part of the lives and history of the peoples of the African Diaspora. Peoples of African descent in the Americas from the beginnings of slavery to the present have both embraced and contested religion, and it is this historic tension between African Americans use and experience of religion as both oppressor and liberator that will form the foundation of the class. In addition to the traditional religious history of the Black Church, special consideration of religions outside of what is traditionally considered to be "The Black Church", namely Islam, the Nation of Islam, Garveyism, Rastafarianism, Spiritualist churches, and Santeria will comprise a major portion of the course.

Department: Religion & Classics
Course: REL 164
Title: Death, Dying and Beyond
Instructor: P. Muller-Ortega
Prerequisites: none
Exams: Take-home midterm; several in-class, reaction papers and a final exam
Description: This class will center on a study of the nature of death, dying and after-death states as portrayed particularly in the Asian religious and philosophical traditions. Readings from the Tibetan Book of
the Dead, the Upanishads, the Pali Canon, and a variety of other sources will serve to explore the meanings of death in the Asian context. Additional readings in modern scholarship on the meanings of death, as well as comparative readings in selected sources on Western approaches to death will amplify our discussions. With regard to the Asian traditions, a particular focus will be the exploration of the idea of the bardo or the "between" state of the Tibetan traditions. As well, we will examine the widespread Asian notion of samsara or transmigration as a device for explaining and categorizing after-death destinations. An additional focus will be the interesting connections between Asian ideas about mystical states and corresponding ideas about death. In a wider context, the course will approach how varying notions of death influenced the evolution of cosmologies in Asia, created differing constructions of personal identity, and impelled the articulation of notions of ultimate meaning and transcendence.

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

**Department:** Religion & Classics  
**Course:** REL 208  
**Title:** Medicine, Magic, and Miracle in the Greco-Roman World  
**Cross-listed:** CLA 208  
**Instructor:** Merideth, A.  
**Restrictions:** Not open to freshmen  
**Description:** Using a wide range of materials (medical treatises, magical papyri, gospel stories, inscriptions, etc.), we will examine the range of understandings of disease and of healing practices in the Greco-Roman world. We will focus on the development of competing healing cults in antiquity (such as the Asklepios cult, early Christianity) as well as the development of the medical "profession" during this period. Additionally, we will examine and critique both ancient and modern debates over the differences between science, magic, and religion.

**Department:** Religion & Classics  
**Course:** REL 220  
**Title:** Jewish Women's Writings  
**Cross-listed:** JST 220/WST 236  
**Instructor:** Rubel, N.

**Department:** Religion & Classics  
**Course:** REL 231  
**Title:** Christian History Part I  
**Instructor:** Cadorette, C.  
**Description:** This course will examine the origin and evolution of Christianity, juxtaposing Christian belief and behavior with the historical environments Christianity existed in until 1500. Multiple short papers are required.

**Department:** Religion & Classics  
**Course:** REL 234  
**Title:** Cry Freedom  
**Cross-listed:** AAS 246  
**Instructor:** Cadorette, C  
**Coursework:** Students will write short reflection essays throughout the semester.  
**Description:** The course will examine the relationship between religion and social change. It will first focus on religious and social problems from a national and international perspective. Focal points will be the issues of race, class, and gender, as well as economic and socio-political issues that face our world today. The second part of the course will focus on contributions that religion can make to solving social issues in a freeing or liberation way.

**Department:** Religion & Classics  
**Course:** REL 248  
**Title:** Islam and Global Politics  
**Cross-listed:** ANT 264  
**Instructor:** Gibson, T.  
**Description:** Please see ANT 264 for a course description.
Department: Religion & Classics
Course: REL 272
Title: Classical Yoga Traditions of India
Instructor: Muller-Ortega, P.
Description: The classical Yoga traditions of India stand at the core of the spiritual disciplines that emerge in the evolution of Asian religious and spiritual thought. Differentiated from the later tantric Yoga, the classical Yoga receives its most influential statement in the Yoga Sutras of Patanjali (ca. 4th century C.E.). Here, Hindu mysticism, philosophy and practice coincide to create a text that elaborates on what might be called a philosophical technology for the exploration of mystical consciousness. This class will approach the study and implications of this text and of its supporting traditions of thought and practice in a sustained way. Also, we will read one of the classic books in the History of Religions, Mircea Eliade's Yoga, Immortality and Freedom. Through the lens of these two texts, students will approach an understanding of the deepest core of Indian mystical practice and its connections to the broader traditions of Indian spirituality.

Department: Religion & Classics
Course: REL 285
Title: Dante's Divine Comedy I
Instructor: Stocchi, D.
Exams: Please see IT 220 for the course description.
Description: Please see IT 220 for the course description.

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

Department: Religion & Classics
Course: REL 294
Title: Religion, Gender and the Body
Instructor: Butler, A.
Description: How do the major world religions shape religious practices, perceptions, and beliefs through their understandings of the body and gender? This course will interrogate the role of religious belief in forming, shaping, and transforming understandings of the body and gender in the world’s major religious traditions.

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

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

Department: Religion & Classics -- Arabic
Course: ARA 148
Title: The Arabian Nights
Cross-listed: REL 148/CLT 257A
Instructor: Beaumont, D.
Description: The medieval Arabic fiction known as either The Arabian Nights or The 1001 Nights is a classic of world literature. Though names such as Shahrazad and Shahriyar, Aladdin, and Sindbad are well known, the real nature of The Nights is less well known. It is a fiction clearly intended for adults; its themes of sex, love, betrayal, revenge, money, power and violence are treated with great sophistication and humor. We discuss the major themes of The Nights--love and sex, comedy and adventure--that have given the stories their universal appeal and their timeless relevance. The readable English translation of Powys Mathers is used, and classes are mostly devoted to discussion. The written work consists of one short paper and a longer paper.
**Course:** ARA 201  
**Title:** Arabic Prose Seminar I  
**Instructor:** Beaumont, D.  
**Prerequisites:** ARA 103  
**Exams:** 2 Midterm and 1 Final  
**Description:** The course emphasizes readings in literary Arabic to strengthen the vocabulary of students who have completed study of the basic grammar. Further instruction in the grammar is based on the readings. The selection of texts will take into account students' interests.

**Religion & Classics -- Classical Greek**

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

**Department:** Religion & Classics -- Classical Greek  
**Course:** CGR 103  
**Title:** Intermediate Greek  
**Instructor:** 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 202  
**Title:** Homer's Odyssey  
**Instructor:** Geier, A.  
**Prerequisites:** CGR 101-103  
**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 -- Classical Studies**

**Course:** CLA 115  
**Title:** Roman World  
**Cross-listed:** REL 210/HIS 213  
**Instructor:** Colantoni, E.  
**Description:** The course offers a comprehensive account of the history of Rome. It first deals with her humble beginnings as a small city-state in central Italy, continuing with the process of Roman hegemony in the Italian peninsula and the Mediterranean world, and ending with the times that led to the fall of the Roman Empire in the west in AD 476. Students will be introduced to the analysis of written and archaeological sources in order to answer the basic question, How do we know about the Romans? Thus, the analysis of the evidence will be the foundation to discuss major topics of Roman civilization. For example, an examination of the city of Pompeii will allow us to reconstruct the daily life of a wealthy Roman city, and the first Roman emperor Augustus' written statement of his own political and military achievements provides us with evidence for the transition from a republican to an imperial form of government.

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

**Department:** Religion & Classics -- Classical Studies  
**Course:** CLA 204  
**Title:** Engineering & Society in Antiquity  
**Instructor:** Colantoni, E.  
**Description:** This course explores the relationship between, on the one hand, engineering and technological advances and, on the other hand, social practices in ancient Greece and Rome. Topics covered include the social role of engineers and architects, the ancient economy and work force, and the social use of buildings and other constructions in the Greek and Roman worlds.

**Religion & Classics -- Hebrew**

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

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

Department: Religion & Classics -- Latin
Course: LAT 103
Title: Intermediate Latin
Prerequisites: Lat 102 or a minimum of 420 on the College Proficiency Exam, or permission of the instructor.
Description: This course, the third in the introductory sequence, consists of readings from a selection of Latin prose and poetry, with accompanying grammar review.

Department: Religion & Classics -- Latin
Course: LAT 204
Title: Catullus
Description: In this course we will encounter one of the most daring and controversial writers in the western canon: the poet Catullus. Through close readings of his poems in the original Latin, we will approach such issues as the use of poetry for social commentary, the history of obscenity, the manuscript tradition, the Alexandrian Movement, and the influence of Catullus' vivid and irreverent poetry on later authors. We will spend time on questions of meter, style, and syntax, as well as on the many cultural and historical aspects of Catullus' work. Requirement: second-year Latin or permission of instructor.

Department: Religion & Classics -- Latin
Course: LAT 250
Title: Latin Skills
Cross-listed: LAT 450
Instructor: Crooker, J.
Description: This course focuses on the development of listening, speaking, and writing skills for Latin students and prospective teachers. Topics to be covered include Oral Latin, Latin Prose Composition, Active Learning in the Latin Classroom, and Latin Curricula and Lesson Design.

Department: Religion & Classics -- Latin
Course: LAT 251
Title: Latin Prose Composition
Instructor: Crooker, J.
Description: Students will translate progressively more complex sentences and passages from English into Latin and will try their hand at free composition. Includes a thorough review of Latin syntax and idiom.

Department: Religion & Classics -- Latin
Course: LAT 450
Title: Latin Skills
Cross-listed: LAT 250
Instructor: Crooker, J.
Description: Please see Lat 250 for the course description.

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

**Department:** Sociology  
**Course:** SOC 205  
**Title:** Microsociology  
**Instructor:** Smith, T.  
**Exams:** No exams, three term papers  
**Description:** Microsociology gives students hands-on experience using theories to interpret ongoing small group processes. Weekly student meetings are videotaped, and the videotapes are subsequently studied with the professor. Students read widely from literature on small group processes, group psychotherapy, and social psychology. Weekly student discussions.

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

**Department:** Sociology  
**Course:** SOC 221  
**Title:** Love, Friendship and Community  
**Cross-listed:** ANT 214  
**Instructor:** Smith, T.  
**Exams:** None; Two written presentations; class presentation.  
**Coursework:** Lectures at beginning of semester; class presentations and discussion in later part of semester.  
**Description:** This course introduces students to a neurosociological perspective on strong interaction and strong personal ties-high frequency social dynamics marked by strong mutual coupling.

**Department:** Statistics  
**Course:** STT 201  
**Title:** Introduction to Probability  
**Cross-listed:** MTH 201  
**Instructor:** Smith, T.  
**Prerequisites:** MTH 162 or equivalent, MTH 164 recommended  
**Exams:** 2-3 exams  
**Description:** Please see MTH 201 for this course description.

**Department:** Statistics  
**Course:** STT 211  
**Title:** Applied Statistics for the Social Sciences I  
**Exams:** 2 midterms and a final  
**Coursework:** Lectures plus weekly recitation section meeting. Weekly homework.  
**Description:** Descriptive statistics, statistical analysis, and statistical inference as used in the social sciences; including elements of correlation, regression, and analysis of variance. Excel, Minitab and similar programs.

**Department:** Statistics  
**Course:** STT 212  
**Title:** Applied Statistics for the Biological & Physical Sciences I  
**Instructor:** Smith, T.  
**Class Size:** 75-100  
**Exams:** Two mid-terms and a final  
**Coursework:** Lectures plus a weekly recitation section. Weekly homework.  
**Description:** Descriptive statistics, statistical analysis, and statistical inference as used in the biological and physical sciences; including elements of correlation, regression, and analysis of variance. Excel, Minitab and similar programs.

**Department:** Statistics  
**Course:** STT 213  
**Title:** Elements of Probability and Statistics  
**Prerequisites:** MTH 141 or equivalent.  
**Class Size:** 100  
**Exams:** 2 mid-terms and a final exam
Coursework: Lectures plus weekly recitation section meeting. Weekly homework.

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

Department: Statistics
Course: STT 221W
Title: Sampling Techniques
Cross-listed: BST 421
Prerequisites: STT 211, STT 212 or STT 213, and 203 or equivalent.
Exams: Weekly assignments, 2 exams, & a final
Description: Simple random, stratified, systematic, and cluster sampling; estimation of the means, proportions, variance, and ratios of a finite population. Ratio and regression methods of estimation and the use of auxiliary information. The nonresponse problem. Prerequisite: Familiarity with the concepts of expectation, variance, covariance and correlation.

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

Department: Statistics
Course: STT 277
Title: Theory of Voting and Elections
Cross-listed: ECO 575, PSC 575
Instructor: John Duggan
Prerequisites: Consent of the advisor.
Coursework: Supervised reading arranged on an individual basis.

Department: Political Economy
Course: PEC 575
Title: Independent Study in Statistics
Prerequisites: STT 391
Exams: Final
Description: STT-278 explores the use of the software introduced in STT 277 to understand data from observational studies. The student will learn the philosophy, capabilities, and pitfalls of exploratory data analysis. Graphical methods will be emphasized, but numerically-oriented procedures such as linear models will be included where appropriate. Each student will analyze a real-life data set in some depth and write a report

The student will learn how to get data into (and out of) these programs, execute fundamental statistical procedures, and write programs in R and SAS to document and automate analyses. (Course offered first half of the semester, 2 credits.)

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

Department: Political Economy
Course: PEC 575
Title: Theory of Voting and Elections
Cross-listed: ECO 575, PSC 575
Instructor: John Duggan
Coursework: STT-277 and the companion course STT-278 are an introduction to statistical computing using software specifically engineered for that purpose. It is strongly recommended that students register for both courses. STT-277 covers the elements of programming in R and SAS, and operation of the JMP graphical user interface.
Some extracted text was provided, but it seems incomplete. The text starts with the sentence: "theoretic models of static elections, sequential voting, bargaining, and repeated elections, with a special focus on connections to social choice."

### Women's Studies

<table>
<thead>
<tr>
<th>Department:</th>
<th>Women's Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>WST 100</td>
</tr>
<tr>
<td>Title:</td>
<td>Intro to Women's Studies: Politics of Cultural Morality</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Holtzman, D.</td>
</tr>
<tr>
<td>Class Size:</td>
<td>25</td>
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<tr>
<td>Description:</td>
<td>This course will discuss traditional conceptions of binary genders and related gender roles that have evolved into more fluid understandings of femininity and masculinity. Prescriptions dictating the gender role behaviors equated with normative masculinity and femininity have become increasingly malleable as a result of social, cultural, and ideological changes catalyzed by the feminist and gay rights movements. Despite these seemingly radical shifts in cultural perceptions of gender roles and polymorphous sexualities, men and women are still largely held to different moral and ethical standards. Mainstream film, television, magazines and advertising bombard us with images of ideal masculinity, femininity and gendered bodies. This course will explore a variety of texts ranging from tabloid magazines, and mainstream hard news journalistic sources to entertainment based television programs, cinema, literary and documentary biography, and reality television.</td>
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<th>Department:</th>
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<tr>
<td>Course:</td>
<td>WST 115</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to Medical Anthropology</td>
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<tr>
<td>Cross-listed:</td>
<td>ANT 102</td>
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<tr>
<td>Instructor:</td>
<td>Metcalf, L.</td>
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<tr>
<td>Class Size:</td>
<td>30</td>
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<tr>
<td>Description:</td>
<td>Lectures, discussions, readings, films</td>
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<tr>
<th>Department:</th>
<th>Women's Studies</th>
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<tbody>
<tr>
<td>Course:</td>
<td>WST 206F</td>
</tr>
<tr>
<td>Title:</td>
<td>Feminism, Gender, and Health</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>HLS 206</td>
</tr>
<tr>
<td>Instructor:</td>
<td>J. Lightweis-Goff</td>
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<tr>
<td>Class Size:</td>
<td>25</td>
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<tr>
<td>Description:</td>
<td>Feminism, Gender, and Health considers how theories of gender, social organization, and biological sex shape the questions asked and explanations and interventions offered in the areas of health, disease, and well-being. We examine the effects of gender, social class, and race in mediating health effects, with particular emphasis on women's health. Some issues examined will include the life cycle and transitions, collective and individual trauma, access to health services, HIV/AIDS, reproductive health and longevity. THIS IS A WOMEN'S STUDIES FOUNDATION COURSE. CAP 25.</td>
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<tr>
<td>Course:</td>
<td>WST 213</td>
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<tr>
<td>Title:</td>
<td>Sacred dance</td>
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<tr>
<td>Cross-listed:</td>
<td>DAN 220</td>
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<tr>
<td>Instructor:</td>
<td>McCausland, J.</td>
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<tr>
<td>Description:</td>
<td>Class requirements include journaling, reading assignments from the text book and handouts, viewing videos and attendance at dance events.</td>
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<th>Department:</th>
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<tr>
<td>Course:</td>
<td>WST 217</td>
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<tr>
<td>Title:</td>
<td>Birth and Death: Anthropology of Vital Events</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ANT 218</td>
</tr>
<tr>
<td>Instructor:</td>
<td>A. Carter</td>
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<tr>
<td>Restrictions:</td>
<td>Permission of instructor required for freshmen</td>
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<tr>
<td>Coursework:</td>
<td>Two hourly and one final exam; optional research paper</td>
</tr>
<tr>
<td>Description:</td>
<td>Please see ANT 218 for the course description.</td>
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<th>Department:</th>
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<tr>
<td>Course:</td>
<td>WST 218</td>
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<tr>
<td>Title:</td>
<td>Marriage, Family &amp; Community in a Global Perspective</td>
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<tr>
<td>Cross-listed:</td>
<td>ANT 244, AAS 248</td>
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<tr>
<td>Instructor:</td>
<td>A. Emmett</td>
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<tr>
<td>Class Size:</td>
<td>30</td>
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<tr>
<td>Description:</td>
<td>Please see ANT 244 for the course description.</td>
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</table>
Department: Women's Studies  
Course: WST 232  
Title: Wizards, Magic, and Fantasy  
Cross-listed: GER 232  
Instructor: Gustafson, S.  
Description: Please see GER 232 for the course description.

Department: Women's Studies  
Course: WST 233  
Title: Race in American Fiction  
Cross-listed: ENG 250, ENG 450, AAS 250  
Instructor: Li, S.  
Class Size: 25  
Description: Please see ENG 250 for the course description.

Department: Women's Studies  
Course: WST 236  
Title: Jewish Women's Writings  
Instructor: Rubel, N.  
Description: Please see REL 220 for the course description.

Department: Women's Studies  
Course: WST 239  
Title: Women and Religion  
Cross-listed: ANR 240  
Instructor: McHugh, Ernestine  
Class Size: 4 from River campus  
Restrictions: Not open to freshmen  
Description: A study of conceptions of women embodied in the imagery of various religious traditions, the role of women in worship, and the impact of religious traditions on feminine experience and social definitions of gender roles. For each region, we consider both religious doctrine and the lives of women in the context of societies holding to these religious beliefs. Cross-listed as ANR 240. THIS IS A THREE CREDIT COURSE TAUGHT AT THE EASTMAN SCHOOL OF MUSIC.

Department: Women's Studies  
Course: WST 267  
Title: Topics in Media Studies: Changing Genres of Erotica  
Cross-listed: ENG 267, ENG 467  
Instructor: Bleich, D.  
Description: Please see ENG 267 for the course description.

Department: Women's Studies  
Course: WST 294  
Title: Religion, Gender and the Body  
Instructor: McHugh, Ernestine  
Restrictions: Permission of instructor required  
Description: WST 294 It is the Student's responsibility to arrange the internship with the organization and to find a professor as an advisor for the internship. Organizations/Companies currently...
offering internships (Descriptions available in Lattimore 538)
Afterimage, Alternatives for Battered Women, Center for Dispute
Settlement, City Council of Rochester, Division of Human
Rights, New York, Gay Alliance of Genesee Valley, Monroe
County District Attorney's Office, Planned Parenthood, St.
Joseph's Villa, Sojourner House, Susan B. Anthony House, TV
Dinner/Metro Justice, Urban League of Rochester, Visual Studies
Workshop (Media Center) (1-2 positions), Wheatley Branch
Library, YWCA.

Department: Women's Studies
Course: WST 395
Title: Independent Research

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

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

Department: Women's Studies
Course: WST 473
Title: Sex & Gender In America City
Cross-listed: HIS 373W, HIS 473, WST 373
Instructor: Wolcott, V.
Description: Please See HIS 373W

Writing Program

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

Department: Writing Program
Course: WRT 105E
Title: Reasoning and Writing in the College Class Size: 10
Restrictions: Permission of Department required
Description: This course is an extended version of Reasoning and Writing in
the College, WRT 105, and as such introduces students to
disciplinary writing at the college level. It provides instruction
and practice in clear and effective writing and in constructing
cogent and compelling arguments, as students draft and revise
numerous papers of different forms and lengths. These papers
introduce some of the forms of writing students are expected to
produce later in their college careers as well as in their public and
professional lives after graduation. The subject of the course is
writing, but since writing is about something, each section of
105E presents various texts, mostly written, for analysis and
discussion in preparation for constructing extended argumentative
essays and a final research paper. Students consider the roles of
audience and purpose in shaping the organization, style and
argumentative strategies of their own papers, and they learn to
become critical readers of their writing through peer critiques and
revision and editing workshops. All extended versions of
Reasoning and Writing in the College include an additional class
session each week and are taught in computer labs and limited to
10 students. Places in these sections are reserved for students who
decide that they need a more supported writing experience to
meet the demands of college and professional writing. Each
section has unique content. Please refer to
http://writing.rochester.edu for a full list of course descriptions.
Department: Writing Program  
Course: WRT 245  
Title: Advanced Writing and Peer Tutoring  
Cross-listed: ENG 285  
Instructor: Rosser-Knill, Deborah  
Prerequisites: Fulfillment of the Primary Writing Requirement. Minimum GPA of 3.0.  
Restrictions: Special application required  
Description: WRT 245/ENG 285 prepares selected sophomores, juniors and eligible freshmen for work as writing fellows. The course design reflects the kind of growth that is necessary for a strong, intuitive writer and speaker to become a successful reader, listener and responder in peer-tutoring situations. Through a great deal of writing and rewriting, critical reading of published essays and student work, and informal and formal speaking, students will develop a conscious understanding of themselves as communicators and become aware of the choices they make to reach their audience. Before tutoring on their own, students will observe College Writing Center consultants conducting sessions as part of a mentoring program. By the semester’s end, students should be ready to take on their own hours as peer tutors.

School of Engineering and Applied Sciences

Biomedical Engineering

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

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

Department: Biomedical Engineering  
Course: BME 201L  
Title: MATLAB for Biomedical Engineering  
Instructor: Carney, L  
Prerequisites: Co-requisite: BME 201  
Exams: 1 mid-term and a final exam  
Coursework: In-class assignments and occasional take-home assignments; final project  
Description: Fundamentals of computer programming in MATLAB. Emphasis on programming basics, such as syntax, loop structures, logic, input/output, and graphics.

Department: Biomedical Engineering  
Course: BME 221  
Title: Biomedical Computation  
Instructor: Wismueller, A  
Prerequisites: BME 201 and 201 L or permission of instructor  
Exams: one midterm, a final exam, and a final project  
Coursework: weekly programming assignments
<table>
<thead>
<tr>
<th>Department</th>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Engineering</td>
<td>BME 260</td>
<td>Quantitative Physiology with lab</td>
<td>Seidman, S</td>
<td>ECE 113 or BME 210, or permission of instructor</td>
<td>The application of numerical and statistical methods to model biological systems and interpret biological data, using the MATLAB programming language.</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>BME 283</td>
<td>Biosolid Mechanics</td>
<td>Lerner, A</td>
<td>ME 226, BME 201 &amp; 201L or ME 120</td>
<td>Application of engineering mechanics to biological tissues including bone, soft tissue, cell membranes, and muscle. Realistic modeling of biological structures, including musculoskeletal joints and tissues. Investigations of the responses of biological tissues to mechanical factors. Experimental methods and material models.</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>BME 295</td>
<td>BME Design Seminar</td>
<td>Lerner, A, Seidman, S</td>
<td>Math, science, and engineering courses appropriate for fourth-year students in BME</td>
<td>Introduction to design of medical devices and instruments. Students are introduced to methods and strategies for creative design while considering ethical, economic, regulatory and safety issues. In addition to benchmarking existing devices, students prepare for a design project to be completed in the following semester.</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>BME 453</td>
<td>Advanced Biomedical Ultrasound</td>
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<tr>
<td>Biomedical Engineering</td>
<td>BME 483</td>
<td>Biosolid Mechanics</td>
<td>Lerner, A</td>
<td>ME 226, BME 201 or ME 120</td>
<td>Applicable to the techniques applied in state-of-the-art ultrasound imaging and their theoretical bases. Topics include linear acoustic systems, spatial impulse responses, the k-space formulation, methods of acoustic field calculation, dynamic focusing and apodization, scattering, the statistics of acoustic speckle, speckle correlation, compounding techniques, phase aberration correction, velocity estimation, and flow imaging. A strong emphasis is placed on readings of original sources and student assignments and projects based on realistic acoustic simulations.</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>CHE 113</td>
<td>Chemical Process Analysis</td>
<td>Wu, JHD</td>
<td>Freshman Chemistry, MTH 161- MTH 162, or permission of instructor</td>
<td>Course Content and Method of Instruction: Lectures and discussion. Methodology and problem solving techniques in chemical engineering; the concepts of mass and energy conservation in both reacting and non-reacting chemical systems; the concept of equilibrium in chemical and physical systems and the basic principles of thermodynamics are presented; both steady state and transient behavior are discussed for some special systems. Not open to seniors 4-credits</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>CHE 225</td>
<td>Chemical Engineering Thermodynamics</td>
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<tr>
<td>Instructor:</td>
<td>Yates, M</td>
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<tr>
<td>Prerequisites:</td>
<td>Junior standing</td>
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<td>Restrictions:</td>
<td>Permission of instructor required</td>
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<tr>
<td>Exams:</td>
<td>3 exams</td>
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<tr>
<td>Coursework:</td>
<td>Classroom discussions strongly encouraged. Problem sets and analysis-based project assignments are important components of the course.</td>
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<tr>
<td>Description:</td>
<td>Lectures on the origin and use of the first and second laws of thermodynamics, followed by a discussion of equilibrium criteria. Thermodynamic descriptions of (real) gases and liquids are developed and applications of thermodynamics to phase and chemical equilibria complete the course. 4-credits</td>
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<tr>
<td>Department:</td>
<td>Chemical Engineering</td>
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<tr>
<td>Course:</td>
<td>CHE 244</td>
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<tr>
<td>Title:</td>
<td>Heat and Mass Transfer</td>
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<tr>
<td>Instructor:</td>
<td>Anthamatten, M</td>
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<tr>
<td>Prerequisites:</td>
<td>CHE 243, fluid mechanics, differential equations</td>
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<tr>
<td>Exams:</td>
<td>Typically two or three hourly exams and a final</td>
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<tr>
<td>Coursework:</td>
<td>Assignments: Weekly homework sets, a few open-ended problems or a design project of limited scope.</td>
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<tr>
<td>Description:</td>
<td>A fundamental course in heat transfer processes and an introduction to mass transfer. Topics include equations of energy conservation, conduction, convection, radiation; equations for chemical species conservation, diffusion, macroscopic balances. Emphasis on problem solving, especially for purposes of design. 4-credits</td>
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<thead>
<tr>
<th>Instructor:</th>
<th>Jorne, J.</th>
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<tbody>
<tr>
<td>Class Size:</td>
<td>60</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>Permission of instructor required</td>
</tr>
<tr>
<td>Description:</td>
<td>The course will concentrate on presenting the principles of electrochemistry and electrochemical engineering, and the design considerations for the development of fuel cells capable of satisfying the projected performance of an electric car. The course is expected to prepare you for the challenges of energy conversion and storage and the environment in the 21st century. 2-Credits</td>
</tr>
<tr>
<td>Department:</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Course:</td>
<td>CHE 273</td>
</tr>
<tr>
<td>Title:</td>
<td>Chemical Engineering Process Design</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Chimowitz, E</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Senior standing in CHE</td>
</tr>
<tr>
<td>Exams:</td>
<td>2 exams + design project</td>
</tr>
<tr>
<td>Description:</td>
<td>The course will cover material related to the conception and design of chemical processes. Topics will include energy systems analysis, the attainability region approach for reactor network synthesis and the effects of statistical uncertainty on decision making when evaluating alternative designs. Modern techniques for stochastic simulation of random processes will also be studied. The use of computational software packages like MATHCAD and DESIGN II will be expected in doing many of the homework assignments. In addition to two examinations, a computer-oriented design project will be assigned involving the use of chemical engineering principles for the solution of a process flowsheet problem. A good background in computer programming is necessary since many of the course assignments make use of numerical techniques. 4-credits</td>
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<thead>
<tr>
<th>Instructor:</th>
<th>Ebenhack, B, Olsen, T</th>
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<tbody>
<tr>
<td>Prerequisites:</td>
<td>CHE 243, CHE 244, CHE 231, CHE 250</td>
</tr>
<tr>
<td>Exams:</td>
<td>Three oral presentations per group per semester</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Exploratory experiments and preliminary experimental design, as well as oral and written reports are required. Weekly progress review meetings are also required.</td>
</tr>
<tr>
<td>Description:</td>
<td>Operation and scale-up of chemical process equipment for chemical reaction and purification. Examination of the factors that affect performance in practice. Exploratory experiments and preliminary experimental design, as well as oral and written reports are required. 3-credits</td>
</tr>
<tr>
<td>Department:</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Course:</td>
<td>CHE 255</td>
</tr>
<tr>
<td>Title:</td>
<td>Laboratory in Chemical Engineering Processes</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Ebenhack, B, Olsen, T</td>
</tr>
<tr>
<td>Description:</td>
<td>Emphasis on technical and development aspects of energy resource problems. Applications of resource exploration and development in energy prospective locales which lack commercial energy development: such as the rift basins and embayments of Africa. Consideration of quality of life impacts of energy. Problems considered include: combustion of fossil fuels for heat and work, combustion products and environmental impact, comparison of fuels on environmental grounds, benefits of energy in social development, technology of energy exploration and development, and economics of energy development and acquisition. 4-credits</td>
</tr>
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<tr>
<th>Instructor:</th>
<th>Chimowitz, E</th>
</tr>
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<tbody>
<tr>
<td>Class Size:</td>
<td>56</td>
</tr>
<tr>
<td>Exams:</td>
<td>2 exams + design project</td>
</tr>
<tr>
<td>Description:</td>
<td>Emphasis on technical and development aspects of energy resource problems. Applications of resource exploration and development in energy prospective locales which lack commercial energy development: such as the rift basins and embayments of Africa. Consideration of quality of life impacts of energy. Problems considered include: combustion of fossil fuels for heat and work, combustion products and environmental impact, comparison of fuels on environmental grounds, benefits of energy in social development, technology of energy exploration and development, and economics of energy development and acquisition. 4-credits</td>
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<td>Prerequisites:</td>
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<td>Exam:</td>
<td>Three oral presentations per group per semester</td>
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<td>Coursework:</td>
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<tr>
<td>Exams:</td>
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<td>Coursework:</td>
<td>Exploratory experiments and preliminary experimental design, as well as oral and written reports are required. Weekly progress review meetings are also required.</td>
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<tr>
<td>Description:</td>
<td>Operation and scale-up of chemical process equipment for chemical reaction and purification. Examination of the factors that affect performance in practice. Exploratory experiments and preliminary experimental design, as well as oral and written reports are required. 3-credits</td>
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<tr>
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<td>Permission of instructor required</td>
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<tr>
<td>Description:</td>
<td>The course will concentrate on presenting the principles of electrochemistry and electrochemical engineering, and the design considerations for the development of fuel cells capable of satisfying the projected performance of an electric car. The course is expected to prepare you for the challenges of energy conversion and storage and the environment in the 21st century. 2-Credits</td>
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<td>Course:</td>
<td>CHE 273</td>
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<td>Chemical Engineering Process Design</td>
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<td>Instructor:</td>
<td>Chimowitz, E</td>
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<td>Prerequisites:</td>
<td>Senior standing in CHE</td>
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<tr>
<td>Exams:</td>
<td>2 exams + design project</td>
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<tr>
<td>Description:</td>
<td>The course will cover material related to the conception and design of chemical processes. Topics will include energy systems analysis, the attainability region approach for reactor network synthesis and the effects of statistical uncertainty on decision making when evaluating alternative designs. Modern techniques for stochastic simulation of random processes will also be studied. The use of computational software packages like MATHCAD and DESIGN II will be expected in doing many of the homework assignments. In addition to two examinations, a computer-oriented design project will be assigned involving the use of chemical engineering principles for the solution of a process flowsheet problem. A good background in computer programming is necessary since many of the course assignments make use of numerical techniques. 4-credits</td>
</tr>
</tbody>
</table>
**Department:** Chemical Engineering  
**Course:** CHE 280  
**Title:** Chemistry of Advanced Materials  
**Cross-listed:** CHE 480, MSC 431  
**Instructor:** Yang, H  
**Description:** Preparation, structure, composition, and properties of advanced materials with emphasis on the underlying chemistry. Atomic structure and bonding of crystalline and amorphous solids and crystalline defect. Materials synthesis and processing by chemical and physical deposition methods. Focus on the relation of structure to properties of materials. Selected topics to illustrate the basic concepts and principles will include thin film materials, nanostructure/ nanoscal/ nanocomposite materials, and bulk materials. 4-credits

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**Department:** Chemical Engineering  
**Course:** CHE 282  
**Title:** Processing of Microelectronic Devices  
**Cross-listed:** CHE 482  
**Instructor:** Jorne, J  
**Class Size:** 60  
**Description:** An overview of processes used in the fabrication of microelectronic devices, with emphasis on chemical engineering principles and methods of analysis. Modeling and processing of microelectronic devices. Includes introduction to physics and technology of solid state devices grade silicon, microlithography, thermal processing, chemical vapor deposition, etching and ion implantation and damascene processing. 2-Credits

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**Department:** Chemical Engineering  
**Course:** CHE 486  
**Title:** Poly Science & Engineering  
**Cross-listed:** CHE 286, MSC 433  
**Instructor:** Chen, S  
**Class Size:** 30  
**Description:** This course features the science and technology of synthetic macromolecules. Topics include polymerization reactions, structure and properties of semicrystalline and amorphous polymers, characterization of structure and properties, structure-property relationship in polymers, and applications of polymeric materials. 4-credits

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**Department:** Chemical Engineering  
**Course:** CHE 441  
**Title:** Advanced Transport Phenomenon  
**Instructor:** Foster, D  
**Prerequisites:** Senior standing in ChE  
**Exams:** Midterm, Final - quizzes  
**Prerequisites:** Prior background in Mendelian and molecular genetics  
**Coursework:** Weekly homework  
**Course:** CHE 441  
**Coursework:** This course will acquaint the student with important topics in advanced transport phenomena (momentum, heat and mass transport). Topics include laminar and turbulent flow, thermal conductivity and the energy equation, molecular mass transport and diffusion with heterogeneous and homogeneous chemical reactions. Focus will be to develop physical understanding of principles discussed and with emphasis on chemical engineering applications. In addition to the text, the student will be exposed to classic and current literature in the field. Two exams, homework assignments and a student project are required. 4-credits

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**Department:** Chemical Engineering  
**Course:** CHE 458  
**Title:** Electrochemical Engineering and Fuel Cells  
**Cross-listed:** CHE 258  
**Instructor:** Jorne, J  
**Class Size:** 60  
**Description:** Please see CHE 258 for the course description.

--

**Department:** Chemical Engineering  
**Course:** CHE 480  
**Title:** Chemistry of Advanced Materials  
**Cross-listed:** CHE 280, MSC 431  
**Instructor:** Yang, H  
**Class Size:** 60  
**Description:** Please see CHE 280 for the course description.

**Department:** Chemical Engineering  
**Course:** CHE 482  
**Title:** Processing of Microelectronic Devices  
**Cross-listed:** CHE 282  
**Instructor:** Jorne, J  
**Class Size:** 60  
**Description:** Please see CHE 282 for the course description.

**Department:** Chemical Engineering  
**Course:** CHE 486  
**Title:** Poly Science & Engineering  
**Cross-listed:** CHE 286, MSC 433  
**Instructor:** Chen, S  
**Class Size:** 30  
**Description:** Please see CHE 286 for the course description.

**Department:** Chemical Engineering  
**Course:** CHE 507  
**Title:** Advanced Genetics  
**Cross-listed:** GEN 507  
**Instructor:** W. Li  
**Coursework:** See GEN 507
### Electrical & Computer Engineering

<table>
<thead>
<tr>
<th>Department:</th>
<th>Electrical &amp; Computer Engineering</th>
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<tbody>
<tr>
<td>Course:</td>
<td>ECE 101</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to Electrical and Computer Engineering</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Mottley, J.</td>
</tr>
<tr>
<td>Description:</td>
<td>2 Credit Hours, meets for 2.5 hours once a week. Project based course gives an overview of the principal areas of Electrical and Computer Engineering, and introduces some tools and practices of Engineering. Projects will include assembly of electronic devices and computer modeling and simulation.</td>
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<tr>
<th>Department:</th>
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<tr>
<td>Course:</td>
<td>ECE 111</td>
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<tr>
<td>Title:</td>
<td>Introduction to Signals and Circuits</td>
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<tr>
<td>Instructor:</td>
<td>Jones, T.B.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>Concurrent registration in MTH 163 or 165 and PHY 122</td>
</tr>
<tr>
<td>Exams:</td>
<td>2 exams and a final</td>
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<tr>
<td>Coursework:</td>
<td>Laboratory: Electrical measurement instruments and techniques.</td>
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<tr>
<td>Description:</td>
<td>Analysis techniques for DC and AC circuits.</td>
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<tr>
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<tr>
<td>Course:</td>
<td>ECE 112</td>
</tr>
<tr>
<td>Title:</td>
<td>Logic Design</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Derefinko, V.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>One semester of college mathematics. Ability to operate computers.</td>
</tr>
<tr>
<td>Exams:</td>
<td>final exam</td>
</tr>
<tr>
<td>Coursework:</td>
<td>Seven lab experiments and homework. One 4 week long project. Lab includes FPGA designs of various complexity.</td>
</tr>
<tr>
<td>Description:</td>
<td>Fundamentals of digital logic design methodology including analysis, synthesis, optimization, simulation, and implementation. Multi-level combinational circuits, synchronous sequential circuits, and Finite State Machines. Programmable logic devices (PLD’s), Computer Aided Design tools (CAD) and Very High Speed IC Hardware Description Language (VHDL) and schematic capture.</td>
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<tr>
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<tbody>
<tr>
<td>Course:</td>
<td>ECE 140</td>
</tr>
<tr>
<td>Title:</td>
<td>Introduction to Digital Music</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Velickik, G.</td>
</tr>
<tr>
<td>Exams:</td>
<td>mid-term and final exams</td>
</tr>
<tr>
<td>Description:</td>
<td>Vibrations and musical sound from strings and pipes. Digitization of sound, digital recording, digital storage. Spectral analysis, digital filtering. Musical sound synthesis: additive synthesis, subtractive synthesis, FM, physical modeling. MIDI and computer based interactive music. Laboratory. Taught alternate years with ECE240</td>
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<tr>
<th>Department:</th>
<th>Electrical &amp; Computer Engineering</th>
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<tbody>
<tr>
<td>Course:</td>
<td>ECE 201</td>
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<tr>
<td>Title:</td>
<td>Advanced Computer Architecture</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ECE401</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Huang, M.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>ECE 200 or equivalent</td>
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<tr>
<td>Course:</td>
<td>ECE 211</td>
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<tr>
<td>Title:</td>
<td>Electronic Devices and Circuits</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Ignjatovic, Z.</td>
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<tr>
<td>Prerequisites:</td>
<td>ECE 113</td>
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<td>Exams:</td>
<td>3</td>
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<tr>
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<tr>
<td>Course:</td>
<td>ECE 221</td>
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<tr>
<td>Title:</td>
<td>Semiconductor Devices</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ECE 423 and MSC426</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Sobolewski, R.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>ECE 221, ECE 230, and PHY 123 or instructor's approval</td>
</tr>
<tr>
<td>Exams:</td>
<td>Midterm; library research/review project; presentation and written report</td>
</tr>
<tr>
<td>Coursework:</td>
<td>6 homework assignments; research/review project</td>
</tr>
<tr>
<td>Description:</td>
<td>Review of modern solid state devices, their physics and principles of operation. Solid state physics fundamentals, free electrons, band theory, transport properties of semiconductors, tunneling, semiconductor junctions and translators. Compound and semi-magnetic semiconductors. Optoelectronic and ultrafast devices.</td>
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<tr>
<td>Course:</td>
<td>ECE 230</td>
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<tr>
<td>Title:</td>
<td>Electromagnetic Waves</td>
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<tr>
<th>Department:</th>
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<tr>
<td>Course:</td>
<td>ECE 240</td>
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<tr>
<td>Title:</td>
<td>Advanced Electromagnetic Waves</td>
</tr>
<tr>
<td>Cross-listed:</td>
<td>ECE 440</td>
</tr>
<tr>
<td>Instructor:</td>
<td>Velickik, G.</td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>ECE 230</td>
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<tr>
<td>Exams:</td>
<td>4</td>
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</table>
Instructor: Sobolewski, R.  
Class Size: 30  
Prerequisites: MTH 163, MTH 164, PHY 122, ECE 113  
Exams: Two in class exams and final exam  
Coursework: weekly homework assignments, 3 lab, plus 3 pre-lab assignments  

Department: Electrical & Computer Engineering  
Course: ECE 245  
Title: Introduction to Opto-Electronics  
Cross-listed: ECE 455, MSC 473  
Instructor: Hsiang, T.  
Class Size: 30  
Prerequisites: ECE 230 and ECE 221 or equivalent/permission of instructor  
Description: Introduction to fundamentals of wave propagation in materials, waveguides and fibers, generation, modulation and detection of light using semiconductor devices, and elements of optocommunication systems.

Department: Electrical & Computer Engineering  
Course: ECE 241  
Title: Signals  
Instructor: Titlebaum, E.  
Class Size: 60  
Prerequisites: MTH 164, MTH 165/163 and ECE 113  
Exams: three midterms. five laboratory projects based on MATLAB 6.0  
Coursework: Weekly homeworks, Six laboratory projects throughout the semester  
Description: Introduction to continuous and discrete time signal theory and analysis of linear time-invariant systems. Signal representations, convolution, Fourier analysis, filtering of continuous and discrete time signals, Laplace and Z transforms. Laboratory.

Department: Electrical & Computer Engineering  
Course: ECE 244  
Title: Digital Communications  
Cross-listed: ECE 444  
Instructor: Sharma, G.  
Class Size: 30  
Prerequisites: ECE242 or equivalent ECE 440 or equivalent (may be taken as a co-requisite) Familiarity w/ MATLAB (or instructor permission)  
Exams: Mid-term and final exams  
Coursework: MATLAB programming may be required  
Description: Digital communication system elements, characterization and representation of communication signals and systems. Digital transmission, binary and M-ary modulation schemes, demodulation and detection, coherent and incoherent demodulators, error performance. Channel coding and error correction codes.

Department: Electrical & Computer Engineering  
Course: ECE 246  
Title: Digital Signal Processing  
Cross-listed: ECE 446  
Instructor: Demirkol, I.  
Class Size: 20  
Prerequisites: ECE 241  
Exams: two mid-terms and a final exam  
Coursework: Weekly homeworks, monthly Matlab assignments.

Department: Electrical & Computer Engineering  
Course: ECE 261  
Title: Introduction to VLSI  
Cross-listed: ECE 461  
Instructor: Ampadu, P.  
Class Size: 20  
Prerequisites: ECE 112 and ECE 221  
Exams: final exam  
Coursework: Extensive work in the lab is required  

Department: Electrical & Computer Engineering  
Course: ECE 266  
Title: RF and Microwave Integrated Circuits  
Cross-listed: ECE 466  
Instructor: Wu, H.  
Class Size: 30  
Prerequisites: ECE222, ECE230 or equivalent. Permission of instructor  
Description: Bi-weekly design lab; term project using EDA tools
Description: This course involves the analysis and design of radio-frequency (RF) and microwave integrated circuits at the transistor level. We begin with a review of electromagnetics and transmission line theory. Several concepts and techniques are then introduced, including Smith chart, s-parameters, and EM simulation. After discussion of RLC circuits, high-frequency narrow-band amplifiers are studied, followed by wideband amplifiers. Then we examine the important issue of noise with the design example of low-noise amplifiers (LNA). Nonlinear circuits are studied next with the examples of mixers and RF power amplifiers. A study of oscillators and phase noise follows. Afterwards we introduce phase-locked loops (PLL) and frequency synthesizers. The course concludes with an overview of transceivers architectures. The course emphasizes the development of both circuit design intuition and analytical skills. There are bi-weekly design labs and a term project using industry-standard EDA tools (ADS, Asitic).

Department: Electrical & Computer Engineering
Course: ECE 398
Title: Design Seminar
Instructor: Mottley, J.
Prerequisites: ECE111, 112, 113, 114
Restrictions: Not open to freshmen and sophomores
Coursework: Prepare a proposal for a Design project that will be carried out the next semester depending on the area of concentration. Elements of the proposal include: definition of project requirements and product specifications and clarification.
Description: Students majoring in Electrical and Computer Engineering will take this course at the same time as their concentration elective and prepare a proposal for the Design Project to be carried out in the Spring semester. Students and instructor will consult with design project supervisors in various areas to devise a plan. Proposal might include: definition of project requirements and product specifications, clarification and verification of end user requirements, subsystem definition and interfaces, generation of project and testing plans, reliability analysis, product safety, compliance issues, manufacturability, cost, and documentation.

Department: Electrical & Computer Engineering
Course: ECE 401
Title: Advanced Computer Architecture
Cross-listed: ECE 201
Instructor: Huang, M.  Class Size: 20
Prerequisites: ECE200 or equivalent.
Description: Please see ECE 201 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 423
Title: Semiconductor Devices
Cross-listed: ECE 223 and MSC426
Instructor: Sobolewski, R.
Prerequisites: ECE 221, ECE230, and PHY 123 or Instructor's approval.
Exams: Midterm; Library research/review project-required; presentation & written report
Coursework: 6 homework assignments, research/review project
Description: Please see ECE 223 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 433
Title: Musical Acoustics
Instructor: Mottley, J.
Class Size: 30
Prerequisites: Differential equations and multivariable calculus, physics
Description: An early graduate or advanced undergraduate course on the engineering aspects of acoustics. Review of oscillators, vibratory motion, the acoustics wave equation, reflection and transmission, and radiation and reception of acoustic waves. Additional topics as time and interests allow, such as resonators, hearing and speech, architectural and environmental acoustics.

Department: Electrical & Computer Engineering
Course: ECE 435
Title: Intro to Optoelectronics
Instructor: Hsiang, T.  Class Size: 20
Prerequisites: ECE 230 and ECE 221 equivalent or permission of instructor
Description: Please see ECE 235 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 440
Title: Introduction to Random Processes
Instructor: Waag, R.
Prerequisites: ECE242 or equivalent
Exams: Midterm and final
Coursework: About ten homework assignments
Description: An introduction to random signals and noise in linear systems. This knowledge will prove useful in the design and analysis of communication systems and signal processing. Review of selected topics in probability theory, random variables, random vectors, random sequences (random walk, Martingales, ARMA model, Markov chains), random processes (Poisson process, Gaussian process, Wiener process, Markov process), stationary and cyclostationary processes, random process inputs to linear
systems, ergodicity, filtering, linear estimation, bandlimited and bandpass processes.

Department: Electrical & Computer Engineering
Course: ECE 441
Title: Detection & Estimation Theory
Instructor: Vosoughi, A.  
Class Size: 20
Prerequisites: ECE440 or permission of instructor
Exams: midterm, term project, final
Coursework: Homework assignments and term project
Description: Classical detection and estimation theory (binary hypothesis tests, M hypothesis, Bayes estimation, maximum likelihood estimation), minimum variance unbiased estimators, Cramer-Rao lower bound, best linear unbiased estimators, least squares estimation, applications to detection of signals in noise and estimation of signal parameters. The role of signal design in Radar, Sonar and wireless communications will be discussed.

Department: Electrical & Computer Engineering
Course: ECE 444
Title: Digital Communication
Cross-listed: 244
Instructor: Sharma, G.  
Class Size: 30
Prerequisites: ECE242 or equivalent, ECE 440 or equivalent (may be taken as a co-requisite), Familiarity with MATLAB or instructor permission
Exams: Mid-term and final exams
Coursework: Assignments; MATLAB programming may be required.
Description: Please see ECE 244 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 446
Title: Digital Signal Processing
Cross-listed: ECE246
Instructor: Demirkol, I.  
Class Size: 20
Prerequisites: ECE241
Exams: two mid-terms and a final exam
Coursework: Weekly homeworks, monthly MATLAB assignments
Description: Please see ECE 246 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 447
Title: Digital Image Processing
Instructor: M. Doyley  
Class Size: 30
Prerequisites: ECE246, MTH165 and a familiarity with MATLAB programming environment and C/C++.
Coursework: homework and project assignments

Department: Electrical & Computer Engineering
Course: ECE 461
Title: Introduction to VLSI
Cross-listed: ECE 261
Instructor: Ampadu, P.  
Class Size: 20
Prerequisites: ECE 112 and ECE 221
Exams: final exam
Coursework: Extensive work in the lab is required
Description: Please see ECE 261 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 466
Title: RF and Microwave Integrated Circuits
Cross-listed: ECE266
Instructor: Wu, H.  
Class Size: 30
Prerequisites: ECE 222, ECE 230 or equivalent. Permission of instructor
Coursework: Bi-weekly design lab; term project using EDA to
Description: Please see ECE 266 for the course description.

Department: Electrical & Computer Engineering
Course: ECE 479
Title: Theory and Practice in Audio Recording and Processing
Instructor: Headlam, D.  
Class Size: 20
Description: This course is designed to teach aspects of audio recording techniques to non-music majors. The weekly sessions will include hands-on introductions to microphone techniques recording hardware and software, digital editing, room acoustics, and mixing and mastering. The course will assume some technical knowledge of signal processing (FFT, dB) but will emphasize the musical aspects of the recording process. Evaluation will be made on the basis of class participation and a final project, which could be a recording session of a RC group, or a research paper on some topic related to contemporary recording and sound.

Department: Electrical & Computer Engineering
Course: ECE 590
Title: Energy for the 21st Century: A Survey
Instructor: Fauchet, P.  
Class Size: 20
Prerequisites: Well-qualified seniors may take the course with the instructor's permission.
Coursework: Several written reports and attendance and participation in class.
Description: This 2-credit course aims at providing a succinct, yet complete and critical introduction to the different means of producing energy. The increasing demand for power generation is starting to outstrip the known sources of fossil fuels. In addition, the increasing use of fossil fuels is widely believed to be a major contributor to global warming. Alternative sources of energy that do not produce as much greenhouse gases and/or are renewable are still mostly in the research phase. Students from engineering and science disciplines needs to be educated in the field of energy production so that they can contribute to the international discussion and conduct research that may provide solutions to specific problems in the generation, transport, and use of energy. The lectures will be technical and at a level that is appropriate for graduate students from engineering and science disciplines.

Mechanical Engineering

Department: Mechanical Engineering
Course: ME 104Q
Title: Life's Structures: Mechanical Design in Nature and in the Technological World
Instructor: Perucchio, R.
Class Size: 50
Description: Mechanical aspects of design in the context of two areas in which most students have a very good intuitive understanding: structures built and used by humankind over the centuries and human and animal bodies. We examine how Newtonian mechanics, material behavior, energy requirements, size, and dimensional considerations define the boundaries of mechanical design in nature and in human technology. On the side of technology, the course studies the evolution of masonry buildings, of bridges, and of other structures. In the case of biological design, topics include bones and the skeletal system, the heart and the circulatory system, muscles and soft tissues. Students work in teams on several design projects, including written reports, model constructions, poster presentation.

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

Department: Mechanical Engineering
Course: ME 120
Title: Engineering Mechanics I Statics
Instructor: Quesnel, D.
Class Size: 90
Prerequisites: MTH 161
Exams: 3 midterms and 1 final
Description: Basic concepts; units; vector algebra; forces; moments; force systems; equilibrium. Plane trusses; method of joints; method of sections; space trusses; frames and machines. Centroids of lines, areas, and volumes; center of mass. Distributed loads on beams; internal forces in beams; distributed loads on cables; hydrostatics. Basic concepts of friction; dry friction; friction in machines.

Department: Mechanical Engineering
Course: ME 121
Title: Engineering Mechanics II
Instructor: Perucchio
Class Size: 70
Prerequisites: MTH 161 and MTH 162 or their equivalents, ME 120
Description: The application of engineering principles and technology to the design and performance of engineering structures from antiquity to the pre-industrial world. The course combines three components: basic engineering principles (transfer of forces, momentum, and energy), study of primary texts (translation), and examination of existing structures and designs. Primary texts include selections from Aristotle's Mechanical Problems, the Ten Books of Architecture by Vitruvus, Leonardo's Notebooks, Galileo's Dialogues on Two New Sciences, and technical manuals from the 18th and early 19th centuries. Emphasis is on engineering design and its application. Topics: force, power and energy sources and transmission, engines, irrigation and hydraulics, aqueducts, lifting devices, construction engineering, columns and beams, engineering structural materials and failure, instruments of warfare, and sea transport.
This is the second required Mechanical Engineering course at the University of Rochester. It covers the engineering approach to the solution of dynamics problems with an emphasis on understanding the concepts. Topics include kinematics and kinetics of particles and rigid bodies.

Department: Mechanical Engineering  
Course: ME 201  
Title: Boundary Value Problems  
Instructor: Clark, A.  
Class Size: 85  
Prerequisites: MTH 164 and MTH 163 or MTH 165  
Exams: 2 Midterms and a final  
Coursework: Weekly homework and a project  
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; Legendre polynomials and separation of variables in spherical 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, diffusive mass transport, electrostatics, and acoustics.

Department: Mechanical Engineering  
Course: ME 204  
Title: Mechanical Design  
Instructor: Muir, C.  
Class Size: 45  
Prerequisites: ME 226 (ME 211 recommended)  
Exams: 2 exams  
Coursework: term project, weekly homework  
Description: The theory and application of structural mechanics to mechanical design. Topics include: matrix structural analysis and finite element techniques. Students will use the NASTRAN finite element program to solve a variety of design and analysis problems. The term project consists of a team competition to design, analyze build, and test a lightweight structure.

Department: Mechanical Engineering  
Course: ME 211  
Title: Computational Methods in Engineering  
Instructor: Gracewski, S.  
Class Size: 30  
Prerequisites: MTH 163, MTH 164  
Exams: Three exams.  
Coursework: Six to eight homework assignments, each including programming assignments, workshop assignments, term projects  

Department: Mechanical Engineering  
Course: ME 225  
Title: Introduction to Fluid Dynamics  
Instructor: Thomas, J.  
Class Size: 60  
Prerequisites: MTH 163, MTH 164; PHY 121, ME 120, ME 123  
Exams: Two or three in-class exams, final exam.  
Coursework: Weekly problem sets.  
Description: Fluid properties; fluid statics; kinematics of moving fluids; the Bernoulli equation and applications; control volume analysis; differential analysis of fluid flow; inviscid flow, plane potential flow; viscous flow, the Navier-Stokes equation; dimensional analysis, similitude; empirical analysis of pipe flows; flow over immersed bodies, boundary layers, lift and drag.

Department: Mechanical Engineering  
Course: ME 242  
Title: Solids and Materials Laboratory  
Instructor: Li, J. C. M.  
Class Size: 42 Maximum  
Prerequisites: ME 280, ME 226  
Coursework: Laboratory Projects  
Description: Lecture and laboratory. Lecture: engineering problem solving methodologies and review of basic statistics (homework and test). Laboratory: small (one week) laboratories dealing with solids/materials instrumentation (completion of several required), and an independent project (including proposal, experimentation, and final report). Most students will work in groups of three during much of the class.

Department: Mechanical Engineering  
Course: ME 251  
Title: Heat Power Applications  
Instructor: Betti, R.  
Class Size: 60  
Prerequisites: ME 123, ME 225 (may be taken concurrently)  
Exams: One midterm exam and a final exam  
Coursework: Design project  
Description: Vapor power systems, gas power systems, refrigeration and heat pumps, internal combustion engines, compressors and turbines.

Department: Mechanical Engineering
Course: ME 280
Title: Introduction to Materials Science
Cross-listed: MSC 202
Instructor: Burns, S J
Class Size: 40
Prerequisites: ME 226, PHYS 122
Exams: 2 midterms, 2 Labs, and one final
Description: Physical properties of engineering materials including metals, alloys, ceramics, polymers and composites. The properties studied include mechanical strength, thermal, electrical, magnetic and optical characteristics. Relationship of properties to the materials microstructure including atomic bonding, atomic arrangement, crystal structure, impurities, point and line defects and co-existing phases, grain boundaries and interfaces. Processing techniques for altering microstructure and engineering properties. Selection of engineering materials.

Course: ME 402
Title: Partial Differential Equations
Instructor: Goncharov, V.
Class Size: 15
Prerequisites: ME 201, MTH 282
Exams: Midterm and final
Description: First order equations and the theory of characteristics; examples of kinematical waves. Wave equation and propagation; use of characteristics with wave equation. Laplace and Poisson equations: Greens functions; solutions in rectangular, cylindrical, and spherical coordinates. Diffusion equation: Greens functions; scale relations in diffusion; vector fields and spherical decay modes; diffusion in moving materials.

Course: ME 434
Title: Introduction to Plasma Physics I
Instructor: Ren, C.
Class Size: 10
Prerequisites: PHY 217 or OPT 262
Exams: 1 midterm, 1 final
Description: Basic plasma parameters; quasi-neutrality, Debye length, plasma frequency, plasma parameter, Charged particle motion: orbit theory. Basic plasma equations; derivation of fluid equations from the Vlasov equation. Waves in plasmas. MHD theory.

Course: ME 440
Title: Mechanics of Structures
Instructor: Lambropoulos, J.
Class Size: 15
Prerequisites: ME226 or equivalent
Description: Application of direct and indirect methods of the calculus of variations to the stress, deflection, and dynamic analysis of beam, ring and plate elements. Strain energy and complementary strain energy; variational principles; Lagrange multipliers, Rayleigh-Ritz method; Galerkin Method.

Course: ME 444
Title: Continuum Mechanics
Instructor: Gans, R.
Class Size: 10 - 20
Prerequisites: ME 225, ME 226, Math through ME 201/MTH 281, strong linear algebra, mathematical maturity
Exams: midterm exam and a final
Coursework: Weekly problem sets

Course: ME 462
Title: Experimental Materials Science
Instructor: Li, J. C. M.
Class Size: 42 Maximum
Prerequisites: ME 280, ME 226
Coursework: Laboratory Projects
Description: Please see ME 242 for the course description.

Course: ME 483
Title: Biosolid Mechanics
Instructor: Lerner, A.
Class Size: 25
Prerequisites: ME 226 or equivalent
Exams: I exam, 1 term project, 6 homework assignments
Description: Please see BME 283 for the course description.

Course: ME 492
Title: Corrosion
Instructor: Quesnel, David J.
Description: This is a first course in electrochemical corrosion aimed at first year graduate students. No background is assumed and the first week will cover corrosion overview at the level of ME 280. (at level of vanVlack or other general Materials Science texts) The
goal of the course is to understand corrosion mechanisms in a way suitable to use this understanding in corrosion related experiments and modeling. We will cover the known infrastructure of corrosion science using two text books, Principles and Prevention of Corrosion 2nd Edition, by Denny A. Jones, Prentice Hall ISBN 0-13-359993-0 and Principles of Corrosion Engineering and Corrosion Control by Z. Ahmad, Butterworth-Heinemann, Elesevier, Amsterdam, first Edition 2006, ISBN # 0- 7506-5924-6, advancing to the use of articles from the open literature, particularly review articles. Topics include: galvanic behaviors, Pourbaix diagrams, thermodynamics of corrosion, basic reaction paths of corrosion, active paths, passivization, corrosion measurements, modern electrochemical instrumentation, and the meaning of their outcomes, sample preparations, anodic and cathodic protection. Examples will draw from pitting, fretting, uniform, filiform, and the many other types of corrosion. Some discussion of corrosion simulation methods. The successful student will be prepared for corrosion based research and will have an understanding of how to minimize the impact of corrosion on engineering systems.

Optics

Department: Optics
Course: OPT 101
Title: Optics in the Information Age
Instructor: Wayne Knox
Class Size: no limit
Prerequisites: None.
Description: Forget glasses. This course begins with a discussion of the properties of Light: refraction, imaging, diffraction, interference, the historical development of optical instruments (the microscope, telescope, laser) then moves into topics not limited to the Internet, high-speed information access, information storage and display, as well as new medical instruments, therapies and applications. Several demonstrations and conceptual models are presented.

Department: Optics
Course: OPT 211
Title: Computational Methods in Optics
Instructor: Thomas G. Brown
Class Size: 35
Prerequisites: MTH 162 and concurrent enrollment in MTH 164
Description: This course introduces techniques of transforming continuous problems to discrete mathematical models. Students learn computational methods for solving problems in optics using high level software. Includes labs.

Optics Laboratory
Department: Optics
Course: OPT 253
Title: Optics Laboratory
Instructor: Svetlana Lukishova
Class Size: 6
Prerequisites: PHY 123 or PHY 143
Cross-listed: OPT 453, PHY 434
Description: This advanced optics teaching laboratory course will expose students to cutting-edge photon counting instrumentation and methods with applications ranging from quantum information to...
biotechnology and medicine. Major topics will include entanglement, Bell's inequalities, single-photon interference, single-emitter confocal fluorescence microscopy, Hanbury Brown & Twiss correlations/photonic antibunching. The full course consists of four laboratory experiments and final presentations by participants. Readings will include case studies of current research and industrial applications, their problems and future potential.

Department: Optics  
Course: OPT 256  
Title: Optics Laboratory  
Instructor: Ken Teegarden, David Berg  
Class Size: 16  
Prerequisites: OPT 242, OPT 261, OPT 262  
Restrictions: Open only to senior majors or by permission of instructor  
Description: Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments. Optics Seniors should take this course in the Fall semester. OPT 257 Optics Laboratory II is offered along with OPT 256 in the spring.

Department: Optics  
Course: OPT 396  
Title: Honors Project  
Instructor: Brown, T.  
Restrictions: Permission of instructor required  
Description: The Undergraduate Honors Program at The Institute of Optics is offered to those seniors who have qualified for the optics major and have an overall grade point average of at least 3.6 after the fall semester of their junior year. Qualifying students will spend two semesters (8 semester hours of credit) doing research under the supervision of an optics faculty member.

Department: Optics  
Course: OPT 411  
Title: Complex Analyis and Mathematical Methods  
Cross-listed: PHY 401  
Instructor: Alonso, M.  
Class Size: 35  
Prerequisites: ME 201, 202 or equivalent; or permission of the Instructor  
Restrictions: Open only to graduate students in offering department  
Description: Study of mathematical techniques such as contour integration, transform theory, Fourier transforms, asymptotic expansions, and Green's functions, as applied to differential, difference, and integral equations.

Department: Optics  
Course: OPT 425

Department: Optics  
Course: OPT 461  
Title: Physical Optics I  
Instructor: Fienup, J.  
Class Size: 60  
Prerequisites: Undergraduate electromagnetic theory, advanced calculus, linear algebra  
Restrictions: Permission of instructor required for undergraduates  
Description: The principles of physical optics including diffraction and propagation based on Fourier transform theory; integral formulation of electromagnetic propagation; diffraction from

Department: Optics  
Course: OPT 441  
Title: Geometrical and Instrumental Optics I  
Class Size: 35  
Description: These courses are designed to give the student a basic working knowledge of image-forming optical systems. They are designed to be taken sequentially: 441 is a prerequisite for 442. The courses are oriented toward problem solving. Material covered in the first term includes: image formation, raytracing and first-order properties of systems; magnification, F/number, and numerical aperture; stops and pupils, telecentricity vignetting; telescopes, microscopes, magnifiers, and projection systems; the Delano diagram; the eye and visual systems, field lenses; optical glasses, the chromatic aberrations, and their correction; derivation of the monochromatic wavefront aberrations and study of their effects upon the image; third order properties of systems of thin lenses; effects of stop position and lens bending; aplanatic, image centered, and pupil centered surfaces; and field flatteners.

Department: Optics  
Course: OPT 257  
Title: Optics Laboratory II  
Instructor: Ken Teegarden, David Berg  
Restrictions: Open only to senior majors or by permission of instructor  
Description: Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments. Optics Seniors should take this course in the Fall semester. OPT 257 Optics Laboratory II is offered along with OPT 256 in the spring.

Department: Optics  
Course: OPT 257  
Title: Optics Laboratory II  
Instructor: Ken Teegarden, David Berg  
Restrictions: Open only to senior majors or by permission of instructor  
Description: Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments. Optics Seniors should take this course in the Fall semester. OPT 257 Optics Laboratory II is offered along with OPT 256 in the spring.

Department: Optics  
Course: OPT 257  
Title: Optics Laboratory II  
Instructor: Ken Teegarden, David Berg  
Restrictions: Open only to senior majors or by permission of instructor  
Description: Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments. Optics Seniors should take this course in the Fall semester. OPT 257 Optics Laboratory II is offered along with OPT 256 in the spring.

Department: Optics  
Course: OPT 257  
Title: Optics Laboratory II  
Instructor: Ken Teegarden, David Berg  
Restrictions: Open only to senior majors or by permission of instructor  
Description: Intensive laboratory course with experiments on optical imaging systems, testing of optical instruments, diffraction, interference, holography, lasers, detectors, spectroscopic instruments. Optics Seniors should take this course in the Fall semester. OPT 257 Optics Laboratory II is offered along with OPT 256 in the spring.
apertures and scattering objects; applications to optics of Fourier
transform theory, sampling expansions, impulse response,
propagation through optical systems, imaging and transforming,
optical transfer function, optical filtering; and selected topics of
current research interest.

Department: Optics
Course: OPT 551
Title: Introduction to Quantum Optics
Instructor: Eberly, J.  Class Size: 35
Prerequisites: OPT 412 or PHY 407/408 or permission of the instructor.
Description: This course gives an introduction to modern theoretical methods
in quantum electronics and quantum optics. It is designed to
provide a background for theoretical or experimental work in
these areas. Topics discussed include: Absorption and emission
of radiation by atoms both far from and near to resonance, using
the Lorentz model and the two-level model of an atom, the
optical Bloch equations and the atomic density matrix, relaxation
phenomena and linewidths, optical pulse propagation, nonlinear
coherence effects, saturation spectroscopy, Raman processes,
photoionization and multiphoton effects.

William E. Simon Graduate School of
Business Administration

Department: Simon School
Course: ACC 201
Title: Principles of Accounting  Class Size: 40-60
Restrictions: Not open to freshmen

Description: This course centers on how a firm is funded, and on how
financial management can help maximize the financial rewards to
those who own the firm, while meeting the obligations of the firm
to other stakeholders. The effect of timing on the value of cash
flows is developed at length, and is applied to the valuation of bonds and stocks. Various facets of stocks and bonds are also introduced, and a brief overview of the stock market is presented. Cash flow concepts are then incorporated into a development of how investment opportunities are analyzed, which includes a discussion of the strengths and weaknesses associated with different analytical methods. The topics of capital market efficiency and portfolio theory are then discussed and tied in to the concept of what investors have sacrificed in order to invest in a firm. This, in turn, is tied in to which investments are worthwhile to a firm's owners.

Department: Simon School  
Course: GBA 157  
Class Size: 30-34  
Title: Fundamentals of Business - Why Businesses Succeed and Fail  
Restrictions: Not open to freshmen and sophomores  
Description: An introduction to the principles of business, examining a wide range of problems businesses face today, using commercial successes and failures. The issues include how companies should consider identifying the markets for their products, leadership and motivation of employees, fund raising considerations and ethical issues facing business men and women. The class concludes with small group presentations and presentation of a modified business plan which integrates information studied during the semester.

Department: Simon School  
Course: LAW 205  
Class Size: 30-40  
Title: Business Law  
Restrictions: Not open to freshmen and sophomores  
Description: A study of basic principles in several fields of law of significance to businesses and other organizations, including constitutional law, contracts, and the legal structure of the major forms of domestic business enterprises. This is 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 court. Throughout, the emphasis is on developing an understanding of the reasoning process used by the courts and society to resolve disputes and define new law.

Department: Simon School  
Course: MKT 203  
Class Size: 45  
Title: Principles of Marketing  
Prerequisites: ACC 201; ECO 207 or equivalent  
Restrictions: Not open to freshmen  
Description: Understanding customer's wants and needs and how the marketing function goes about developing products and services to meet those needs on a continuous basis and optimize customer satisfaction as an end result. A detailed analysis and knowledge with regard to the basic marketing functions and the various marketing functions performed by marketing intermediaries - manufacturers, retailers, wholesalers, agents and others in the channel of distribution. Evaluation and discussion on key marketing topics: pricing, branding, promotion, channels of distribution, new products and services development and the creation of advertising and sales promotion programs to create consumer awareness with regard to those products and services. Culminating in a basic fundamental understanding and working knowledge of the marketing function within the firm.