AHS 1101 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1102;
Instructor: Grossman, Elizabeth Susan
Description: This one credit course is designed for students interested in exploring the many career paths available in health care. Students will have the opportunity to reflect on their own values, skills and interests. You will also hear first-hand from an extensive line-up of guest speakers and learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.

AHS 1102 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1101;
Instructor: Kachgal, Mera
Description: This Web-based, one credit course is for undergraduate students who are exploring health majors and professions. Students will have the opportunity to reflect on their own values, skills and interests. You will learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.

AHS 1102 The Future Physician
1 credit(s); prereq [ACT 30 or higher or SAT 1340 or higher], instr consent;
Instructor: Todd, Tricia
Description: Explore the field of medicine by hearing from and interacting with guest physician speakers from the U of M Medical School and the community. Think critically about the challenges and opportunities of a career in medicine through reflective exercises. Learn about the knowledge and skills needed to be an effective physician, along with the challenges and rewards gained when caring for patients and explore your own fit with a career in medicine.
Style: 20% Discussion, 80% Guest Speakers.
Grading: 15% attendance, 85% reflection paper.

ACCT 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); prereq Soph; Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

ACCT 3216 Intermediate Accounting II
S-N only, 2 credit(s); prereq 2050 or 5125, instr consent;
Instructor: White, Paul Andrew
Description: Students interested in earning academic credit for work involving an accounting internship should contact Nick Biondich at 612-624-7055.

ACCT 3229 Internship in Management Accounting
S-N only, 2 credit(s); prereq Acct 3201, instr consent;
Instructor: White, Paul Andrew
Description: Students interested in earning academic credit for work involving an accounting internship should contact Nick Biondich at 612-624-7055.

ACCT 5101 Intermediate Accounting I
A-F only, 4 credit(s); prereq Grade of at least B- in 2050, [mgmt major or mgmt grad student];
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

ACCT 5102 Intermediate Accounting II
A-F only, 4 credit(s); prereq 5101 [mgmt or grad mgmt student];
Instructor: Tranter, Terry L
Description: Students in class are juniors, seniors, and master's students. While most students are accounting majors, the course is also valuable for students in finance. The class covers the valuation of liabilities and owners' equity accounts, as well as...
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year Credit(s)</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ACCT 5102 Intermediate Accounting II</td>
<td>A-F only, 4 credit(s); prereq 5101 (mgmt or grad mgmt student)</td>
<td>1-8 credit(s), max credits 16, 16 repeats allowed</td>
<td>mgmt or grad mgmt student</td>
<td>Rayburn, Judy Ann</td>
<td>1) allow you to consult with and provide supervised tax return preparation services to foreign national taxpayers. 2) provide training for the preparation of nonresident and dual-status tax returns using tax software; and 3) allow you to consult with and provide supervised tax return preparation services to foreign national taxpayers.</td>
</tr>
<tr>
<td>ACCT 5125 Auditing Principles and Procedures</td>
<td>A-F only, 4 credit(s); prereq [3101 or 5101 or 5100 or 6100], [acct major or grad mgmt student];</td>
<td>4 credit(s), max credits 8; prereq Business admin PhD student or instr consent</td>
<td>Batina, Tom</td>
<td>Instructor: Beil, Frank J</td>
<td>Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome. Style: 60% Lecture, 15% Discussion. Problems Grading: 53% mid exam, 30% final exam, 17% special projects. Exam Format: multiple choice, short essay</td>
</tr>
<tr>
<td>ACCT 5160 Financial Statement Analysis</td>
<td>A-F only, 2 credit(s); prereq [5100/6100 or 3101/5101], [accounting or finance major];</td>
<td>4 credit(s); prereq MBA 6030, MBA student;</td>
<td>Instructor: Beil, Frank J</td>
<td>Instructor: Kallio, Larry Rodger</td>
<td>Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome. Style: 60% Lecture, 15% Discussion. Problems Grading: 53% mid exam, 30% final exam, 17% special projects. Exam Format: multiple choice, short essay</td>
</tr>
<tr>
<td>ACCT 5150 Consolidations and Advanced Reporting</td>
<td>A-F only, 2 credit(s); prereq [5102, mgmt or grad mgmt student];</td>
<td>A-F only, 4 credit(s); prereq MBA 6030, MBA student;</td>
<td>Instructor: Gutterman, Paul Gerard</td>
<td>Instructor: Blondich, Nick E</td>
<td>Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome. Style: 60% Lecture, 15% Discussion. Problems Grading: 53% mid exam, 30% final exam, 17% special projects. Exam Format: multiple choice, short essay</td>
</tr>
<tr>
<td>ACCT 5235 Introduction to Taxation of Business</td>
<td>A-F only, 2 credit(s); prereq 5135, acct major;</td>
<td>A-F only, 4 credit(s); prereq MBA 6030, MBA student;</td>
<td>Instructor: Gu, Zhaoyang</td>
<td>Instructor: Beil, Frank J</td>
<td>Instructor: Kallio, Larry Rodger</td>
</tr>
<tr>
<td>ACCT 5236 Foreign National Tax Consulting</td>
<td>S-N only, 2 credit(s); prereq 5135, accounting major;</td>
<td>4-6 questions per exam; exams are long and run the full class period</td>
<td>Zhang, Ivy Xiying</td>
<td>Instructor: Beil, Frank J</td>
<td>Instructor: Kallio, Larry Rodger</td>
</tr>
<tr>
<td>ACCT 5237 Current Topics in Accounting</td>
<td>A-F only, 2 credit(s); prereq MBA 6030, MBA student;</td>
<td>4 credit(s), max credits 4; prereq MBA 6130, MBA student;</td>
<td>Instructor: Gu, Zhaoyang</td>
<td>Instructor: Kallio, Larry Rodger</td>
<td>Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome. Style: 60% Lecture, 15% Discussion. Problems Grading: 53% mid exam, 30% final exam, 17% special projects. Exam Format: multiple choice, short essay</td>
</tr>
<tr>
<td>ACCT 5327 Financial Statement Analysis</td>
<td>A-F only, 4 credit(s); prereq 5135, accounting major;</td>
<td>A-F only, 4 credit(s); prereq MBA 6030, MBA student;</td>
<td>Instructor: Beil, Frank J</td>
<td>Instructor: Kallio, Larry Rodger</td>
<td>Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome. Style: 60% Lecture, 15% Discussion. Problems Grading: 53% mid exam, 30% final exam, 17% special projects. Exam Format: multiple choice, short essay</td>
</tr>
</tbody>
</table>
## Aerospace Engineering and Mechanics

### AEM 2011 Statics
- **A-F only, 3 credit(s);** prereq PHYS 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], IT;  
  **Instructor:** STAFF  
  **Description:** Force and moment vectors, resultants. Principles of statics and free-body diagrams. Applications to simple trusses, frames, and machines. Distributed loads. Internal forces in beams. Properties of areas, second moments. Laws of friction. 3 credits. Prerequisites: IT student, Phys 1301, concurrent registration in Math 2374 or equivalent.

### AEM 2012 Dynamics
- **A-F only, 3 credit(s);** prereq 2011, [concurrent enrollment Math 2373 or equiv], IT student;  
  **Instructor:** STAFF  
  **Description:** Review of particle dynamics. Mechanical systems and rigid-body dynamics. Kinematics and dynamics of plane systems. Rotating coordinate systems in 2-D. Energy and momentum of 2-D bodies and systems. Vibrations.

### AEM 2021 Statics and Dynamics
- **A-F only, 4 credit(s);** prereq Phys 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], IT;  
  **Instructor:** Ketema, Yohannes  

### AEM 2301 Mechanics of Flight
- **A-F only, 3 credit(s);** prereq PHYS 1301W, [Concurrent registration is required (or allowed) in MATH 2373 or equiv], IT;  
  **Instructor:** STAFF  
  **Description:** Student may contact the instructor or department for information.

### AEM 3031 Deformable Body Mechanics
- **A-F only, 3 credit(s);** prereq [2011 or 2021 or [BMEN 3001, BMEN major]], [Math 2374 or equiv], [Concurrent registration is required (or allowed) in Math 2373 or equiv], IT;  
  **Instructor:** Fosdick, Roger L  
  **Description:** Uniaxial loading and deformation. Stress and strain at a point. Forces and moments. Material behavior; linear elasticity. Torsion. Bending of beams of symmetrical section. Euler buckling.

### AEM 4202 Aerodynamics
- **A-F only, 4 credit(s);** prereq upper div IT or grad, 4201;  
  **Instructor:** STAFF  
  **Description:** Student may contact the instructor or department for information.

### AEM 4203 Aerospace Propulsion
- **A-F only, 4 credit(s);** prereq 4202, [IT upper div or grad student];  
  **Instructor:** STAFF  
  **Description:** Student may contact the instructor or department for information.

### AEM 4295 Problems in Fluid Mechanics
- **1-3 credit(s), max credits 6, 6 repeats allowed;** prereq dept consent;
AEM 4302 Spacecraft Attitude Dynamics and Control
A-F only, 3 credit(s); prereq [4301, IT upper div] or grad student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4303W Flight Dynamics and Control
A-F only, 4 credit(s); prereq [2301, [ENG 1011 or equiv], [IT upper div or grad student]] or instr consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4333 Aerospace Design Ill-Special Projects
3 credit(s), max credits 6; prereq 4331 or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4495 Problems in Dynamics and Control
1-3 credit(s), max credits 6, 6 repeats allowed; prereq dept consent;
Instructor: STAFF
Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4501 Aerospace Structures
A-F only, 3 credit(s); prereq IT upper div or grad, 3031 or equiv;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4511 Mechanics of Composite Materials
3 credit(s); prereq 3031, [IT upper div or grad student];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4595 Problems in Mechanics and Materials
1-3 credit(s), max credits 6, 6 repeats allowed; prereq dept consent;
Instructor: STAFF
Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4601 Instrumentation Laboratory
A-F only, 3 credit(s); prereq CSci 1113, EE 3005, EE 3006, [upper div IT or grad student];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4796 Professional Experience
A-F only, 3 credit(s); prereq IT upper div, AEM major, dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 5431 Trajectory Optimization
A-F only, 3 credit(s); prereq 4321 or EE 4231 or ME 5281 or equiv;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 5495 Topics in Aerospace Systems
A-F only, 1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: STAFF
Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 5503 Theory of Elasticity
A-F only, 3 credit(s); prereq 4501 or equiv, Math 2263 or equiv or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8202 Fluid Mechanics II
3 credit(s); prereq 8201;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8251 Finite-Volume Methods in Computational Fluid Dynamics
3 credit(s); prereq 4201 or 8201 or equiv, CSci 1107 or equiv;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8421 Robust Multivariable Control Design
3 credit(s); prereq 5321 or equiv;
Instructor: Balas,Gary John
Description: Student may contact the instructor or department for information.

AEM 8495 Advanced Topics in Aerospace Systems
A-F only, 1-4 credit(s), max credits 8, 8 repeats allowed; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8525 Elastic Stability of Materials
A-F only, 3 credit(s); prereq IT grad student, familiarity with theory of linear algebra;
Instructor: Elliott,Ryan S.
Description: Student may contact the instructor or department for information.

AEM 8551 Multiscale Methods for Bridging Length and Time Scales
A-F only, 3 credit(s); prereq Basic knowledge of [continuum mechanics, atomic forces], familiarity with partial differential equations, grad student in [engineering or mathematics or physics];
Instructor: James,Richard D
Description: Student may contact the instructor or department for information.

AEM 8595 Selected Topics in Mechanics and Materials
1-4 credit(s), max credits 8, 8 repeats allowed; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AIR 1000 Leadership Laboratory
S-N only, 1 credit(s);
Instructor: Worley,John Edward
Description: Student may contact the instructor or department for information.

AIR 1105 Introduction to the Air Force Today II

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
AFRO 3002 West African History: 1800 to Present
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
 Instructor: Colman, Victoria Bomba
 Description: This course, which is deeply and firmly rooted in the African past, is also very current and relevant for Africa of today and tomorrow. It provides the historical information for understanding and evaluating the recent wars in Liberia and Sierra Leone and the current period of reconstruction in both countries. It helps too, in evaluating the current tensions in Ivory Coast. Students planning travel, course work, or internships in West Africa and students with African backgrounds, will find valuable and timely information about the places they know or will visit. This can contribute to providing the building blocks of development and future planning which meets people "where they are” and therefore increases the chances for success. This information can also help understanding and planning for other parts of the continent. Themes of this course include the study of continuities with the pre-nineteenth century African past, and the profound, even revolutionary changes of the nineteenth century. The impact of increasing contact with the Atlantic World, the continued spread of Islam, the European and American Industrial Revolution, the impact of colonial rule and the drastic changes in political and economic organization in West Africa in the last two hundred years, have led to a very difficult post-colonial period in the last forty-five years. There are signs today, of hope, of difficult lessons learned, signs of concrete roads to take towards a healthy, fruitful West African future.
 Style: We use written works and oral traditions and oral history as sources of our information, along with videos.

AFRO 3108 Black Music: A History of Jazz
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
 Instructor: Williams, Yolanda Y
 Description: The History of Jazz course looks at the development of America’s true “classical” musical form. We will trace the roots of Jazz from West Africa to the spirituals and work songs of the African slave through Blues to the first form of Jazz—New Orleans Dixieland. The other jazz forms of Swing, Bebop, and Cool through Neo-Classicism will also be studied. Because the course focuses primarily on the social, economic, and political impact on jazz, and vice versa, it is a perfect course for both the musician and the non-musician. Musicians will appreciate the developmental aspects of this once brand-new musical form and will gain a better understanding of how musical elements such as form, instrumentation, etc., and life interact and evolve.
 Style: 35% Lecture, 35% Discussion. Outside listening (live and recorded).
 Grading: 20% mid exam, 20% final exam, 30% reports/papers, 10% problem solving, 20% other evaluation. Annotated Bibliography.
 Exam Format: Multiple choice, essay and listening.

AFRO 3112 In the Heart of the Beat: the Poetry of Rap
A-F only, 3 credit(s);
 Instructor: Pate, Alexs D.
 Description: This course is designed to increase the understanding of contemporary African American poetry as expressed by popular culture contributors. Students are asked to analyze and evaluate some of the poems that are used in the music of rap in the context of African American literature.
 Style: An examination of African American culture and aesthetics in general. Students must read 3-5 texts. Students must write a journal about each book. These journals, class participation through group and individual recitation along with a final academic paper comprise the evaluative components of this course.

AFRO 3426 African Americans, Social Policy, and the Welfare State
3 credit(s); Meets CLE req of Cultural Diversity Theme;
 Instructor: Mayes, Keith A
 Description: This is a course on the history of public and social policy and African Americans. It attempts to familiarize students with some of the most pertinent issues that continue to dominate the news. This course seeks to place into historical context the present-day commentary on social security, affirmative action, welfare, healthcare, and incarceration. Instead of focusing on political movements, we will address the outcome and manifestation of social and political movements, mainly policy concerns and questions. We will begin with the period that ushered in the tradition of social policy—the New Deal. The New Deal, the Great Society, and other attempts by the federal government to involve itself in the lives of ordinary people will be at the center of our course. But we will go beyond this and explore the racial, class, and gender implications of social and public policy. How are African-Americans situated within the welfare state? Do African-Americans receive and share in social benefits to the same degree as other groups? How are African-Americans impacted by education policies such as affirmative action and busing, reforms in welfare, sentencing, and incarceration? What presidential administrations have been amenable to policies that address the problems facing African-Americans? The goal of the course is to turn students into policy-makers.

AFRO 3431 Early Africa and Its Global Connections
4 credit(s); Credit will not be granted if credit has been received for: HIST 3431; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
 Instructor: STAFF
 Description: Early African farmers and hunters, men and women, kings and queens, commoners and slaves long stood at the center - not the margins – of global change. From the rise of agriculture to the culmination of the slave trades, Africans actively borrowed ideas, technologies, and foods, guns, and other goods from Asian and European “strangers.” But they profoundly influenced these strangers as well, contributing innovative ideas, technologies, cultural expressions, and wealth. Through close study of oral traditions, epics, archaeological data, food, autobiography, and film, we will investigate early Africans’ global connections. Environment plays an important role in our study: we explore the ways that Africans creatively adapted to and altered the continent’s diverse environments, and how their
choices shaped the kinds of societies in which they lived. By immersing ourselves in Africa's early history, we will also begin to understand and to critique how and why contemporary western media has come to portray Africans as "marginal" to global change.

AFRO 3592W Introduction to Black Women Writers in the United States
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Fletcher, Pamela R
Description: Afro/Engl 3592W, Black Women's Personal Narratives is a literature and an intensive writing course. Students will read personal essays and memoirs written by Black women writers living in the U.S.A. In these nonfiction works, writers such as bell hooks, Audre Lorde, and Lisa Jones will address art, education, family, hair, motherhood, politics, sexism, sexuality, skin color and intra-racial prejudice, socio-economic class and classism, spirituality and religion, racial/cultural identity and racism. The course will place heavy emphasis on student participation, so students are expected to attend class regularly and to engage in active class discussion regarding films and assigned readings. Six books will be assigned over the course of the semester, and paper assignments will include six short literary papers (3-5 pages) and revisions. There will be no midterm or final examinations, as midterm and final papers will be assigned instead.
Style: 30% Lecture, 20% Film/Video, 50% Discussion.

AFRO 3598W Introduction to African American Literature and Culture II
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Wright, John Samuel
Description: In AFRO/ENGL 3597W & 3598W, the new two-semester Writing Intensive introduction to African American literature, a cornucopia of literary texts, oral traditions, audiovisual materials, and internet resources bring black literary traditions out of the shadows and under an expanded exploratory gaze. The Harlem Renaissance divides the first course (3597W) from this companion course (3598W). AFRO/ENGL 3598W focuses exclusively on the 20th century and opens with the Depression Era 1930s literary insurgency led by Richard Wright and then moves forward through the Civil Rights era and Black Power revolts of SNCC, CORE, and the Black Panthers that helped sponsor the 1960s and '70s "second black renaissance," or Black Arts Movement of the "New Breed" generation: an urban black popular culture explosion analogous to the earlier "New Negro" era: Broadway and off-Broadway black theatre; African-inspired visual art; music-driven performance poetry and "rapping"; avant-garde Afro-Asian jazz; independent and Hollywood-based "badassed" black cinema; politico-religious sects and charismatic orators like Malcolm X and Stokely Carmichael; "soul music" performers like Ray Charles, James Brown, & Aretha Franklin; and the "young, gifted and Black" writers who celebrated and critiqued it all from the vantage point of the newly articulated, Third World-conscious "black aesthetic" which culminated in the achievements of novelists like Toni Morrison and playwrights like August Wilson.
Style: 40% Lecture, 40% Discussion, 5% Laboratory, CourseLib website on Lumina interface, plus a Course Handbook on Electronic Reserve.
Grading: 73% reports/papers, 17% quizzes, 10% laboratory evaluation.
Exam Format: multiple choice and short answer

AFRO 3601W Introduction to African Literature
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Githire, Njeri R
Description: In this writing intensive class, students will be provided the opportunity to acquire both a specific and general view of the diversity of literatures from the African continent. We will read texts written in English or translated from African or Western languages, including some recorded from the oral tradition. The authors and narrators come from different parts of Africa (East, West, Central, North, South) and they have composed their work in a variety of forms (novel, drama, epic, poetry). In discussing this variety of literatures from a comparative context, we will assess the similarities and the differences apparent in the cultures from which they emerge. Through regular written assignments that encourage critical thinking and sequenced assignments, students will broaden and deepen their appreciation of literary themes and techniques and refine their communication skills, as they learn about African societies and their place in the larger world.
Style: 40% Lecture, 20% Film/Video, 30% Discussion, 5% Small Group Activities, 5% Web Based.
Grading: 60% reports/papers, 15% quizzes, 20% class participation, 5% other evaluations.
Exam Format: Three papers written throughout the course of the semester;

AFRO 3655 African American Cinema
3 credit(s); prereq Jr or sr; Credit will not be granted if credit has been received for: AFRO 4655; Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

AFRO 3865 African American History: 1865 to the Present
4 credit(s); Credit will not be granted if credit has been received for: HIST 3865; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Lindquist, Malinda A
Description: This course begins with the post-Civil War liberation of four million slaves. As the nation's newest citizens, blacks tested and exercised their newfound freedom through marriage, education, migration, and political participation. On the road to freedom during Reconstruction, southern and northern whites conspired to keep blacks in bondage. The process of undercutting the gains of Reconstruction resulted in Jim Crow segregation, disenfranchisement, and labor discrimination. While detailing black life under Jim Crow, this course also highlights African-American agency through intellectual and cultural production; and union activity and political organization. We then turn a crucial corner during the New Deal era and the Second World War, a period which set the stage for the modern civil rights struggle by unleashing a cadre of black lawyers, social scientists, grassroots activists, and political organizations who worked to tear down the walls of Jim Crow. Next we journey through the 1950s, 1960s, and 1970s and ask -- What role did black protest culture play in liberating blacks during the second reconstruction? We compare the experiences of black men and women and consider how changing ideals of manhood and womanhood shaped the various rights movements. Finally, the course grapples with a variety of contemporary issues from the black boy crisis, to the rise of hip hop and its appeal to white youth to the recent presidential candidacies of Shirley Crisholm, Jesse Jackson, Al Sharpton and Carol Moseley Braun, to the monumental election of Barack Obama in 2008.
Style: 70% Lecture, 15% Film/Video, 15% Discussion.
Grading: 29% midterm exam, 20% final exam, 50% reports/papers, 10% class participation.

AFRO 3910 Topics in African American and African Studies: Black Intellectual Tradition: 1945 to the Present
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Mayes, Keith A
Description: Student may contact the instructor or department for information.

AFRO 3910 Topics in African American and African Studies: From Selma to Soweto
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Autry, Robin Kennedy
Description: It is difficult to identify two countries where the idea
of race has so strongly shaped social life than the United States and South Africa. We will explore how state-directed segregation shaped urban environments and how the legacies of these policies continue to do so. We will ask ourselves: How does race shape the way people navigate public space? How has political change and gentrification transformed historical patterns of racial segregation? What is the importance of national contexts in understanding how local communities mobilize to resist change, re-imagine collective identities, and absorb new groups?

Style: 20% Lecture, 5% Film/Video, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 25% Service Learning.

Grading: 30% reports/papers, 40% special projects, 15% in-class presentation, 15% class participation.

**AFRO 3920 Topics in African American and African Studies:**

**Black Paris: The African Diaspora & Paris, France**

3 credit(s), max credits 6;

Instructor: Keaton, Tricia Danielle

Description: Black Paris: The African Diaspora and Paris, France Thursdays: 2:45 - 5:15 p.m. Paris, France, dubbed “The City of Light,” is considered one of the most beautiful and exciting places in the world, and it is also a critical site in the African diaspora. Why have African descent and origin people migrated to Paris? Why is there a Black/African American, African, and Caribbean presence, dating well over two centuries, in Paris? How do their lived experiences compare? Who are the self-identified Black French? Who are the divas and iconoclasts of “Black Paris”? And, why were young persons in the outer-cities rioting in Paris, and why might that happen again? In this course, we will examine this complex site and the representation of Paris as a bit of heaven and/or a slice of hell by focusing on the life and times of people identified with “Black Paris.” For more topics covered in this course, enter the “Black Paris” portal: [http://www.tcu.umn.edu/~keaton/intro.html](http://www.tcu.umn.edu/~keaton/intro.html)

Style: 60% Lecture, 40% Discussion. Film viewing required

Grading: 30% mid exam, 40% final exam, 20% special projects, 10% class participation. Film viewing required

**AFRO 4910 Topics in African American and African Studies:**

**Space, Identity & Agency in the Black Diaspora**

3 credit(s), max credits 9, 3 repeats allowed;

Instructor: Isoke PhD, Zenzele

Description: Student may contact the instructor or department for information.

**AFRO 5182 Contemporary Black Theatre: 1960-Present**

3 credit(s); Credit will not be granted if credit has been received for: TH 5182;

Instructor: Bellamy, Louis Richard

Description: Student may contact the instructor or department for information.

**AFRO 5551 Methods: Use of Oral Traditions as Resources for History**

3 credit(s);

Instructor: Colfman, Victoria Bomba

Description: Student may contact the instructor or department for information.

**AFRO 5756 Social and Cultural History of Blacks in Sports**

3 credit(s); Credit will not be granted if credit has been received for: AFRO 3756;

Instructor: Atkins, Keletso E

Description: This course examines social/cultural contexts surrounding eras of athletes such as Jack Johnson, Jackie Robinson, Joe Louis, Jesse Owens, Althea Gibson, Wilma Rudolph, Muhammad Ali, Michael Jordan, and Tiger Woods. Impact of these athletes on national/international events. Periods when it was uncommon for black entertainers/athletes to become involved in politics and community activism.

**AFRO 5910 Topics in African American and African Studies:**

**Race, Gender, and Health Policy**

3 credit(s), max credits 9, 3 repeats allowed;

Instructor: Santos, Sonia Beatriz dos

Description: Student may contact the instructor or department for information.

**AFRO 8202 Seminar: Intellectual History of Race**

3 credit(s);

Instructor: Brewer, Rose Marie

Description: ?Race? has little reality in the biological sense, yet its power to influence our lives and our self-understanding is enormous. This course explores the shifting and contested meanings of race, from the European 'Age of Conquest' onward. The course also contains a significant sociological analysis of the 'racial' notion. Starting from the proposition that race is not a stable or fixed category of social thought and being, our primary task will be to ascertain how Western ideas and sociological practice about race have changed, and why these changes have occurred. We will explore the large social processes and discourses developing and shaping the concept of race, particularly how various groups, e.g., native peoples of the Americas, Africans, and Europeans became racialized via enslavement, trade, colonialism and capitalism. We will explore, as well, the various justifications (religious, legal, philosophical, 'scientific') for notions of racial inferiority and racial superiority. While we will spend some time analyzing how what it means to be 'white' has been historically contingent on being non-Black or Indian, we will also explore the subjectivities of racialized and oppressed peoples, especially their critiques of racism and domination.

Style: 20% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities, 20% Student Presentation.

Grading: 30% reports/papers, 10% attendance, 30% reflection paper, 20% in-class presentation, 10% class participation. final research paper

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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
AFEE 4221 Rural Leadership Development 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Peterson, Roland L Description: Student may contact the instructor or department for information.

AFEE 5112 Agricultural Education Program Organization and Curriculum for Youth 3 credit(s); Instructor: Westrom, Lyle Emil Description: Student may contact the instructor or department for information.

AFEE 5114 Agricultural Education Teaching Seminar 1 credit(s); Instructor: Westrom, Lyle Emil Description: Student may contact the instructor or department for information.

AFEE 5116 Coordination of SAE Programs: Work-based Learning A-F only, 2 credit(s); prereq Agricultural education major or instr consent; Instructor: Westrom, Lyle Emil Description: Student may contact the instructor or department for information.

AFEE 5118 Strategies for Managing and Advising the FFA Organization A-F only, 2 credit(s); prereq Agricultural education major or instr consent; Instructor: Greiman, Brad Description: Student may contact the instructor or department for information.

AFEE 5220 Special Topics in Agriculture Education and Extension: Agricultural Policy & Advocacy in Minnesota 2 credit(s), max credits 12, 12 repeats allowed; Instructor: Tesch, Julie L Description: Student may contact the instructor or department for information.

AFEE 5280 Current Issues for the Beginning Agricultural Education Teacher 1-3 credit(s), max credits 3, 1 repeat allowed; Instructor: Greiman, Brad Description: Student may contact the instructor or department for information.

AFEE 5993 Directed Study in Agricultural Education and Extension 1-9 credit(s), max credits 9, 1 repeat allowed; Instructor: Greiman, Brad Description: Student may contact the instructor or department for information.

AFEE 5995 Integrating Paper--Master of Education: Agricultural and Extension Education A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; Instructor: Greiman, Brad Description: Student may contact the instructor or department for information.

AGRO 1093 Directed Studies 1-4 credit(s), max credits 12, 12 repeats allowed; prereq 4 cr in agronomy, instr consent; Instructor: Cardwell, Vernon Bruce Description: Student may contact the instructor or department for information.

AGRO 3131 Student Organic Farm Planning, Growing, and Marketing 3 credit(s); prereq [1101, 1103, BIOL 1001, 1009, HORT 1001] or instr consent; Credit will not be granted if credit has been received for: AGRO 5131; Instructor: Markhart III, Albert Henry Description: Student may contact the instructor or department for information.

AGRO 3203W Environment, Global Food Production, and the Citizen 3 credit(s); prereq Biol 1009 or equiv; Credit will not be granted if credit has been received for: AGUM 2224; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; meets CLE req of Writing Intensive; Instructor: Simmons, Steve Robert Description: Sustainable production of food is crucial to survival. Different agricultural ecosystems have developed around the world that are influenced by and have an impact on the environment. Course examines how the environment constrains the capacity to produce food and the impact of agriculture on the environment. Topics include ecological properties of agricultural ecosystems, issues of biodiversity, natural resource conservation, pollution, water and waste management. The course utilizes interactive television to provide a media experience and features teaching methods that will allow students to resolve actual dilemmas. Students with no prior exposure to agriculture are encouraged to enroll. An introductory knowledge of biological concepts would be helpful. Style: 45% Lecture, 45% Discussion. Decision Cases Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation. Exam Format: short essay and multiple choice.

AGRO 4005 Applied Crop Physiology and Development 4 credit(s), max credits 8; prereq [Chem 1011 or Chem 1021 or equiv], 8 or in [biol or plant science]; Instructor: Brakke, Mary Patricia Description: Student may contact the instructor or department for information.

AGRO 4096 Professional Experience Program: Internship S-N only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent, COAFES undergrad, complete internship contract available in COAFES Career Services before enrolling; UC only; Instructor: Cardwell, Vernon Bruce Description: Student may contact the instructor or department for information.

AGRO 4103 World Food Problems
AGRO 4103 World Food Problems
3 credit(s); prereq Jr or Sr or grad; Credit will not be granted if credit has been received for: APEC 4103; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme;
Instructor: Cardwell, Vernon Bruce
Description: This course provides a multi-disciplinary look at problems (and some of the possible solutions) affecting food production, storage, and utilization. Presentations and discussions introduce and discuss sometimes conflicting views on population control, use of technology, as well as the ethical and cultural values of people in various countries of the world. Emphasis is placed on the need for governments, international assistance agencies, international research and extension centers, as well as the private business sector to assist in solving these complex problems. Students can enroll in either Agro 4103 or ApEc 4103. Previous background in any of the disciplines is not required, but students should expect upper division and/or graduate level assignments.
Style: 33% Lecture, 33% Discussion.
Grading: 60% reports/papers, 25% special projects, 15% class participation.

AGRO 4401 Plant Genetics and Breeding
4 credit(s); prereq [Biol 1009 or equiv or grad], instr consent ; Credit will not be granted if credit has been received for: HORT 4401;
Instructor: Thill, Christian A
Description: This course is designed for undergraduate or Master of Agriculture students. The emphasis will be on plant genetics and breeding and requires no prior genetics course (although a biology course is required). Students taking the course should be interested in using the products of plant breeding rather than being a professional plant breeder. The purpose of this course is to cultivate an appreciation for the fundamental principles of plant genetics and genetic processes and the procedures plant breeders use to create new varieties. Topics range from molecular aspects of genetics, Mendelian genetics, biotechnology, and genomics to variety development, seed multiplication, and intellectual property issues. Class material on Web CT/ Web Vista.
Style: 55% Lecture, 3% Film/Video, 5% Discussion, 30% Laboratory, 5% Small Group Activities, 2% Student Presentation. laboratory involves working with plant material in the greenhouse
Grading: 15% mid exam, 25% final exam, 20% reports/papers, 15% special projects, 10% quizzes, 15% additional semester exams. Reports and papers and special project part of labs
Exam Format: The exams emphasize problem solving and synthesis of material from lecture and labs. Questions are short answer, TF multiple choice, matching, vocabulary and problems.

AGRO 4505 Biology, Ecology, and Management of Invasive Plants
3 credit(s); prereq 4005, [Biol 3002 or equiv], Soil 2125, [Agro
Instructor: Wyse, Donald L
Description: Student may contact the instructor or department for information.

AGRO 4888 Issues in Sustainable Agriculture
2 credit(s); prereq 1103, Soil 1125 or 2125 or equiv;
Instructor: Sheaffer, Craig Charles
Description: Study the social, economic, political and environmental aspects of a sustainable agriculture through discussions with experts in the field. Specific topics can include: the history of agriculture and the family farm, government farm policy, the importance of biodiversity for healthy landscapes, rural communities, quality of life, community supported agriculture, organic agriculture, landscape health and non-profit organizations. Teaching approaches will include student, faculty and producer-led discussions. The course will include on-farm visits. Target audience: non-majors and majors interested in sustainable agriculture.

AGRO 5121 Applied Experimental Design
4 credit(s); prereq Stat 5021 or equiv or instr consent; Credit will not be granted if credit has been received for: ENT 5121;
Instructor: Ehle, Nancy Jo
Description: Student may contact the instructor or department for information.

AGRO 5131 Student Organic Farm Planning, Growing, and Marketing
3 credit(s); prereq [1101, 1103, BIOL 1001, BIOL 1009, HORT 1001] or instr consent ; Credit will not be granted if credit has been received for: AGRO 3131;
Instructor: Markhart III, Albert Henry
Description: Student may contact the instructor or department for information.

AGRO 5999 Special Topics: Workshop in Agronomy
1-6 credit(s), max credits 6, 3 repeats allowed; prereq Jr or Sr or grad student;
Instructor: Porter, Paul M
Description: Student may contact the instructor or department for information.

AGRO 8241 Molecular and Cellular Genetics of Plant Improvement
3 credit(s); prereq GCB 5034 or equiv or instr consent;
Instructor: Muehlbauer, Gary John
Description: Student may contact the instructor or department for information.

AGRO 8270 Graduate Seminar
A-F only, 1 credit(s); prereq Grad major in [applied plnt sci or agro or ent or Hort or plnt brdg or plnt path or soil] or instr consent; Credit will not be granted if credit has been received for: HORT 8270;
Instructor: Wyse, Donald L
Description: Student may contact the instructor or department for information.

AGRO 8280 Current Topics in Applied Plant Sciences
S-N only, 1 credit(s); prereq Grad major in agro or applied plant sciences or ent or Hort or plnt brdg or plnt path or soil or instr consent;
Instructor: Thill, Christian A
Description: Student may contact the instructor or department for information.

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245 Nicholson Hall

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American Indian Studies

19 Scott Hall

AMIN 1001 American Indian Peoples in the United States
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF
Description: This course is intended to give students a general overview of the contemporary and historic experiences of American Indian peoples in the United States and Canada. It challenges the dominant culture's stereotypes and its u思tinking assumptions about American Indian people in the past and present. It shows how the peoples of America's First Nations engaged the presence and representations of foreigners in their midst through acts of resistance, rebellion, accommodation, and innovation. In the process, it illustrates the great diversity of tribal cultures and histories in North America, and it gives evidence of this in the areas of identity, work, philosophy, politics, society, language, religion, literature, and the arts.

AMIN 1002 Indigenous Peoples in Global Perspective
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: POL 1019; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Carlson, Hans M
Description: Student may contact the instructor or department for information.

AMIN 3109 Anishinaabe Literature
A-F only, 3 credit(s); prereq 3103; Credit will not be granted if credit has been received for: AMIN 5109;
Instructor: Nichols, John David
Description: In this introduction to Anishinaabe oral literature in Anishinaabemowin, the Ojibwe language, we will read and analyze written transcriptions of performances in Anishinaabemowin of three main forms: aadizookaan (sacred story), dibajijimowin (narrative), and nagamon (song). Topics discussed include oral literature as performance and text, verbal art in Anishinaabeg life, history of written Anishinaabemowin, text editing and presentation, the Wenabozho/Nenabozho cycle, other aadizookaan, historical and personal narratives, song texts as poetry, and other forms of Anishinaabe literature. Completion of the third term of study of Ojibwe (AMIN 3103) or fluency in Ojibwe is a prerequisite. The readings are accompanied by vocabulary lists, word-building notes, paradigms, and grammar notes to help students expand their knowledge of Anishinaabemowin.
Style: 15% Lecture, 85% Discussion.

AMIN 3143 Language in American Indian Culture and Society
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ANTH 3143;
Instructor: Nichols, John David
Description: This is a survey of North American indigenous languages in social and cultural contexts from before European contact to the present. We will study the relations between the indigenous nations of North America and their languages. How many distinct peoples and languages are there? How are they related to each other or to peoples and languages elsewhere in the world? How do these languages reflect the cultures of their speakers? Is there grammar in indigenous languages? How do language change? What do the languages have to tell us about the history of North America? Can literature be oral and unwritten? Some of things to be encountered are: Eskimo words for snow, sound symbolism, Plains sign language, Navajo code talkers, Sequoyah's invention of Cherokee writing, evidence and testimony in speaking Ojibwe, men's and women's speech, Michif - a mixed Native-French language of the Red River, North American place-names, Kickapoo whistle speech, ways of counting, and much more.
Style: 80% Lecture, 20% Discussion.
Exam Format: essay and multiple choice

AMIN 3201W American Indian Literature
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Meland PhD, Carter
Description: How do you creatively respond to the transformations and deformations introduced into Native America by the colonizing cultures of Europe and Euroamerica? In this course we examine how a select group of American Indian writers creatively respond to the experience of colonization in the narratives they imagine. This question is not aimed exclusively at American Indian writers though, nor is it even more generally aimed only at Indian peoples. Rather this question about colonization is aimed at everyone living here now: How do you (you sitting there reading this statement) creatively respond to the transformations and deformations introduced into Native America by the colonizing culture of Euroamerica? This course invites you to think about this question and this writing, even if you never have before. In class discussions we will examine how the various writers approach this question and we will familiarize ourselves with the ideas, themes, and tools Native writers use through close readings of their works. In addition to examining the works we will also examine ways the various works ask us to consider and reconsider our own experiences of living in North America. Your responses to the works and our guiding question will be explored, examined, and developed in class discussions, a variety of short writing assignments, and a final research essay. You will read four or five books for the course as well as a half-dozen or so short readings. As the course is Writing-Intensive you will also do about 40 pages of writing.
Style: 10% Lecture, 90% Discussion.
Grading: 80% reports/papers, 20% quizzes.

AMIN 3301 American Indian Philosophies
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.
Style: 80% Lecture, 20% Discussion. Group work
Grading: 33% mid exam, 33% final exam, 17% reports/papers,
17% class participation.

Exam Format: The exams will be a take home essay.

AMIN 3501 American Indian Tribal Governments and Politics
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: POL 3701; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Wilkins, David E
Description: This course examines the origins, status, structures, and powers of American Indian governments and the distinctive politics associated with these First Nations who constitute the third set of sovereign governments in the U.S., whose existence long predates the federal and state governments. This course fulfills CLE requirements of Social Science core and Citizenship and Public Ethics themes.
Style: 25% Lecture, 75% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% other evaluation. weekly questions based on readings
Exam Format: long essays

AMIN 3701 Ojibwe Culture and History
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Jones, Dennis
Description: An introductory overview of Ojibwe culture, history, beliefs, and traditions, including philosophy and world view. The course is presented in four parts, with a test and a paper due at the completion of each part.
Style: 50% Lecture, 50% Discussion.
Grading: 20% final exam, 40% reports/papers, 40% quizzes.
Exam Format: Multiple choice; true/false; and matching

AMIN 3711 Dakota Culture and History
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: STAFF
Description: This course focuses on Dakota culture and history. Our emphasis will be on the four bands of the Santee Dakotas: the Mdewakanton, Wahpekute, Wahpeton, and the Sisseton. The content of the course will be regionally based, that is, we will study primarily the Dakota bands located in Minnesota and eastern South Dakota. This course will introduce you to many aspects of Dakota culture. We will first begin with a historical overview of the Dakota people, this section will lead us to a significant event in Dakota History: the Uprising/War/Conflict of 1862. As you learn about Dakota history, you will also become aware of the culture of the Santee Dakota. This will involve oral history and narrative, music and dance, artistic expression, language, and discussions of contemporary issues relevant to the Dakota people. Target audience: anyone interested in American Indian Studies.
Style: 10% Lecture, 60% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: Multiple Choice, Essay

AMIN 3713 American Indian Communities of the Great Lakes
3 credit(s);
Instructor: Child, Brenda J
Description: This course is a study of American Indian communities of the Great Lakes over time, with particular attention to Ojibwe, Dakota, and H-Chunk experiences. In the period before contact with Europeans, Algonquins and Siouan peoples of the Great Lakes formed clans, social policies, political structures, and religious societies. Tribes collaborated in ways that transcended barriers of language and culture. For example, the Nomonimes and Ho-Chunks enjoyed traveling together to the prairies for communal buffalo hunts. Great lakes tribes lived in and shaped an environment that at certain times of the year, such as during the autumnal wild rice harvest, allowed for abundance and a very rich life. The richness of the world Great Lakes tribes created was damaged, depressed, and altered but not destroyed by the arrival of Euroamericans. We will consider the emergence of the fur trade and its impact on tribal societies and gender divisions. Through introduction of disease, treaties, wars, the establishment of reservations, the allotment policy, and the movement to assimilate American Indians into the mainstream of American society. We will explore recent decades in the history of Great Lakes Indian communities through discussion of boarding school experiences, environmental change, urbanization, political activism, the struggle for treaty rights, and the emergence of what some have termed the “new buffalo” of tribal gaming.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Essay

AMIN 3871 American Indian History: Pre-Contact to 1830
3 credit(s); Credit will not be granted if credit has been received for: HIST 3871; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Chang, David Anthony
Description: American Indian history is far more than just the history of the loss of lands to the United States--which is the way we normally encounter it in our textbooks. It is the history of societies that were changing long before Columbus ever stumbled ashore in the Caribbean. It is the history of changing ideas about men and women, humans and spirits, people and animals. It is the story of work--whaling and the fur trade and farming and more. It is the story of grand confederacies of native nations, individual marriages, religious conflict, and intrigue, alliances, and warfare among scores of native societies, five empires, and two new settler nations. This is the rich and diverse history we will explore together in this class. Students should come prepared to use their intellectual talents, to draw on their knowledge of history, to exercise their reading and writing abilities, and to share their ideas.
Style: 50% Lecture, 10% Film/Video, 40% Discussion.
Grading: 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation. Class participation includes discussion and also occasional map quizzes, etc.
Exam Format: Take-home essay format.

AMIN 4201 Topics in American Indian Literature: The Modern American Indian Novel
3 credit(s);
Instructor: Treuer, David Robert
Description: Most courses offered that deal with Native American literature do so without investigating what is meant by ?Native American? or how that might affect the penultimate descriptor ?literature.? Are we to judge what falls into the subject area of ?Native American Literature?? Are we to read only Native American Writers? How are we to classify who is, and who is not, Native American? By blood or experience? Moreover, what is Indian literature? Literature about Indians, or by them? This course seeks to investigate these difficult questions by reading seminal works that have contributed to a literature about Native Americans. We will read early works by writers such as Cooper and Longfellow, and work forward to include writings by N Scott Momaday, Louise Erdrich and James Welch. We will explore the development of key images of Native Americans and look at how the sum of these imaginings help constitute an understanding of Indian identity on the page. Instead of being representative, this course will use literature, all of it American Literature, to explore the formation of ?Indianness? on the page, in order to pull apart the very idea of what constitutes Native American literature.
Style: 10% Lecture, 60% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: Multiple Choice, Essay

AMIN 5109 Anishinaabe Literature
A-F only, 3 credit(s); prereq 3107 or 5107 or instr consent; Credit will not be granted if credit has been received for: AMIN 3109;
Instructor: Nichols, John David
Description: In this introduction to Anishinaabe oral literature in Anishinaabemowin, the Ojibwe language, we will read and analyze written transcriptions of performances in Anishinaabemowin of three main forms: aadizookaan (sacred story), dibajimowin (narrative), and nagamon (song).Topics discussed include oral literature as performance and text, verbal art in Anishinaabe life, history of written Anishinaabemowin, text editing and presentation, the Wenabozho/Nenabozho cycle.
other aadizookaan, historical and personal narratives, song texts as poetry, and other forms of Anishinaabe literature. Completion of the third term of study of Ojibwe (Amin 3103) or fluency in Ojibwe is a prerequisite. The readings are accompanied by vocabulary lists, word-building notes, paradigms, and grammar notes to help students expand their knowledge of Anishinabemowin.

Style: 15% Lecture, 85% Discussion.

**American Studies**

104 Scott Hall

**AMST 1012 Migrants, Refugees, Citizens, and Exiles: The U.S. on an Immigrant Planet**

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Keaton, Tricia Danielle

Description: What is migration? According to the United Nations Secretary General, there are more people living outside their countries of birth than ever before, over 90% of whom were deemed international migrants. In profound ways, globalization has impacted both voluntary and involuntary migration, and behind the numbers are also human stories, the lived face and experiences of migration. In this course, we will explore what it means to be uprooted and transplanted through a variety of films and stimulating reading in order to understand the centrality that various migrations have played in the United States and beyond during this age of migration.

Style: 60% Lecture, 40% Discussion. Film Viewing Required

Grading: 30% mid exam, 40% final exam, 20% special projects, 10% class participation. Film Viewing Required

**AMST 1401 Comparative Genders and Sexualities**

3 credit(s); Meets CLE req of International Perspectives Theme; Instructor: Urquhart, Alex T

Description: Sex and sexuality are all around us. We see thousands of images of sex on television, in movies, magazines, and in our daily interactions. Sex is the subject of advice columns and books for dummies. Sex is at the center of the multibillion-dollar pharmaceutical, pornography, and surgical industries. It is the subject of poetry, prose, and visual art. It is debated in congress, negotiated in schools, and the source of awkward moments at the dinner table. On the darker side of sex are contemporary and historical examples of forced sterilization, rape, slavery, domestic abuse, and the imprisonment of sexual "deviants." This class explores the ways that sexualities shape our economic, cultural, and political worlds. In order to develop the skills for this type of analysis, the semester is organized around historical, cultural, and political moments that have transformed and symbolize modern sexualities.

Style: 40% Lecture, 10% Film/Video, 25% Discussion, 25% Small Group Activities.

Grading: 30% final exam, 20% quizzes, 40% reflection paper, 10% class participation.

Exam Format: The final is a 5 page paper.

**AMST 3001 Contemporary Perspectives on Asian America**

3 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: Onishi, Yuichiro

Description: "Contemporary Asian America" is an oft-used category to mark the transformation of Asian America since the passage of the U.S. Immigration Act of 1965. This law ended decades-long legally-sanctioned Asian immigrant exclusion and facilitated the emergence of new Asian American communities and cultures. Because of this immigration reform, in part, Asian immigrant and Asian American populations are today diverse in terms of ethnicity and origin, as well as language, patterns of settlement, political experience, and educational backgrounds. Moreover, although not acknowledged explicitly, the outcome of this immigration reform coincided with (1) the escalation of wars in Southeast Asia and these wars' aftermath, including refugee resettlement in the United States; (2) changes in the global political economy; and (3) the ascent and institutionalization of Asian American Studies as an academic discipline. Analyzed together, these contemporary perspectives not only encourage new and critical ways of imagining Asian America but also incite new formations within the field of Asian American Studies to challenge existing paradigms and orientations. Conceived as a
reading-intensive seminar, one of the course requirements is that students lead and facilitate class discussions throughout the semester. Students who are interested in engaging with at times intellectually challenging but ultimately generative discussions and questions coming out of Asian American cultural politics and criticism are encouraged to take this class.

**Style:** 25% Lecture, 75% Discussion.

**Grading:** 90% written homework, 10% in-class presentation.

**AMST 3114 America in International Perspective**

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect; **Instructor:** Pierce, Jennifer L

**Description:** Why did people from different regions of the world come to the United States and how does that influence their experience here? What are their hopes, dreams, and realities? What does it mean to become "American" and search for identity and place in our current social, political, and economic climate? This course takes post-1965 immigration as a point of departure to consider the experiences of recent immigrants to the United States from several different regions of the world and uses this most recent wave of immigration to the U.S. as a lens for looking at America in international perspective. We begin by considering the impact of globalization in the U.S. and around the world, with particular attention to the flows of people and electronic images that cross national borders. In the next section, we examine the experiences of recent migrants from Southeast Asia, the Caribbean, and Mexico. And finally, we consider relevant policy questions--many of them actively being debated in the current election cycle--such as the meanings of citizenship, cultural democracy, the rights of non-citizens, and the responsibilities of host states to them.

**Style:** 60% Lecture, 20% Discussion. Film

**Grading:** 35% mid exam, 35% final exam, 30% reports/papers.

**Exam Format:** essay short answer

**AMST 3252W American Popular Culture and Politics: 1900 to 1940**

4 credit(s); Meets CLE req of Citizenship/Publi Ethics Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; **Instructor:** Franklin, Michael David

**Description:** AMERICAN SENSATIONS: CITIZEN BODIES AT THE DAWN OF MASS CULTURE, 1900 TO 1940 Horror, panic, and anguish are just three feelings experienced by people in response to World War I, the 1929 stock market crash, and the Great Depression, three major events that shaped life in America between 1900 to 1940. Yet 1900 to 1940 was also a period in which new forms of pleasure took shape in response to the emergence of mass culture. For the first time in history, a person could watch a Hollywood movie, read a magazine about the latest fashions, listen to jazz music on the radio, or buy an automobile. Life might be scary, but it could also be fun. The U.S. for the first forty years of the twentieth century, then, underwent profound changes with respect to politics and culture, changes that invoked and drew upon emotional response as the state struggled to define who belonged to the nation as a citizen and who did not. This class examines American politics and popular culture from 1900 to 1940 through the lenses of emotional response and the body, with attention to U.S. citizenship. By watching films, listening to music, looking at advertisements, reading literature, and examining other objects of popular culture, we will critically evaluate the relationship between emotional response, mass culture, and the American nation-state. Because emotions are felt within the body, we will also consider how race, class, gender, sexuality, nationality, and disability factor into the definition of U.S. citizenship in this period.

**Style:** 20% Lecture, 35% Film/Video, 25% Discussion, 20% Small Group Activities.

**Grading:** 22% mid exam, 22% final exam, 44% reports/papers, 12% class participation.

**Exam Format:** Take-home essay (approximately 4 pages per exam)

**AMST 3253W American Popular Culture and Politics: 1940 to the Present**

4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; **Instructor:** STAFF

**Description:** In this course, we will examine how the United States changed since World War II as a result of domestic and international struggles, exploring the role popular culture played in this transformation. During these years the nation became an international power, altering the ways in which Americans understood their place in the world. A new consumer culture and domestic ideal became linked to American identity and Cold War politics. Within the U.S., challenges to the mainstream took the form of a new counter culture, the assertion of black citizenship, and the rise of feminism, each demanding participation in public life and a redefinition of the hierarchies of the past. In this course, we will look at the ways in which these conflicts at home and abroad have changed the ways Americans think about themselves as citizens and the place of our nation in the world.

**Style:** To be announced instructor will provide specific information

**Grading:** Grading will be determined by to be announced instructor

**AMST 3920 Topics in American Studies: Tony Kushner in America**

3 credit(s), max credits 6; **Instructor:** Katz, Judith

**Description:** Tony Kushner’s epic play. Angels In America, took the politics of the North American AIDS epidemic head on. All of his work, including essays as well as plays such as Caroline or Change; Homebody/Kabul; and even his translation of the Yiddish classic, The Dybbuk, examines issues of class, race, and homophobia. All of Tony Kushner’s work advocates strongly for social justice and social change. This course aims to examine Kushner’s writing in both a historical and artistic context. To this end we will explore work by writers who came before him, including James Baldwin, Lorraine Hansberry, Arthur Miller, Megan Terry, and Larry Kramer as well as his contemporaries, such as Anna Daevere Smith, Paula Vogel, and Susan Lori Parks, as well as the work of Kushner himself.

**Style:** 5% Lecture, 15% Film/Video, 70% Discussion.

**Grading:** 75% reports/papers, 25% class participation.

**AMST 3920 Topics in American Studies: Culture Wars**

3 credit(s), max credits 6; **Instructor:** Noble, David W

**Description:** Why, in contrast to Canada and the countries of Western Europe, did half the people in the United States in 2005 reject the idea of evolution and want creationism taught in the public schools? Why do so many more people in the United States than in Canada or in Western European nations reject abortion and oppose gay marriage? In this course we will look to the 1940s and 1950s for the origins of these bitter current debates. In particular, we will explore how the national government’s adoption of anti-segregation and civil rights policies led to the creation of new alliances between Southern conservatives and conservatives in other regions. These alliances intensified in the 1960s in response to the strong anti-war movement of that decade and the movements for women’s rights and rights for gays. In this course we will also examine how the shifting balance of political power between liberals and conservatives in this period, as a consequence of new alliances, resulted in a debate where religious values have been made central to American national identity. We will identify what groups are most likely to be part of the conservative and the liberal coalitions, taking religion, region, class, race, ethnicity, and gender into consideration, and study the methods characteristic of the various coalitions.

**Style:** 67% Lecture, 33% Discussion.

**Grading:** 75% reports/papers, 25% class participation.


3 credit(s), max credits 6; **Instructor:** Keaton, Tricia Danielle

**Description:** In this course, we will examine how the United States changed since World War II as a result of domestic and international struggles, exploring the role popular culture played in this transformation. During these years the nation became an international power, altering the ways in which Americans understood their place in the world. A new consumer culture and domestic ideal became linked to American identity and Cold War politics. Within the U.S., challenges to the mainstream took the form of a new counter culture, the assertion of black citizenship, and the rise of feminism, each demanding participation in public life and a redefinition of the hierarchies of the past. In this course, we will look at the ways in which these conflicts at home and abroad have changed the ways Americans think about themselves as citizens and the place of our nation in the world.

**Style:** To be announced instructor will provide specific information

**Grading:** Grading will be determined by to be announced instructor
**AMST 8231 Cultural Fallout: The Cold War and Its Legacy, Readings**

3 credit(s); Instructor: May, Elaine Tyler

**Description:** This course will examine the culture of the Cold War as it developed in the years after World War II, how it affected and reflected the domestic politics, public policies, and civic life in the postwar era, the impact of domestic anti-communism, and the influence of American cultural politics abroad. We will examine how the Cold War shaped gender expectations, sexuality, class relations, racial justice and civil rights, and how its legacy has affected American politics, culture, and social life in the years since. The course will be organized in the form of a professional working group, with scholarly debates, discussions, and conference-style presentations. The purpose of this format is to model professional activities that you will engage in as you embark on your academic careers. Graduate school should serve not simply as the culmination of your education as students, but as the beginning of your career as scholars. As such, you are expected to read, write, and participate in the seminar at a level consistent with standards of professional academic life.

**AMST 8250 Popular Culture and Politics in the 20th Century:**

**Research Strategies**

3 credit(s); prereq 8239 or instr consent; Instructor: May, Lary L

**Description:** Student may contact the instructor or department for information.

**AMST 8401 Practicum in American Studies**

S-N only, 3 credit(s); prereq instr consent; Instructor: Pierce, Jennifer L

**Description:** Teaching at the College Level -- This course is intended to train graduate students for teaching at the college level. The first part of the course explores a number of issues and debates in higher education today including the "corporate" university and neoliberalism, pedagogy, and academic freedom. The second part of the course, "The Art and Craft of Teaching," examines the actual nuts and bolts of teaching. We will focus on ways to lead discussion, prepare lectures, craft syllabi, and design effective tests and teaching evaluations. By the end of the course, students will have completed a syllabus for a course in one of their subfields and a 15 page paper that addresses major themes and directions in their subfield and how it engages, informs, and contributes to the larger field of American Studies. The paper should include the relevant scholarly literature that provides the rationale for the topic covered and the organization of their course.

**Style:** Seminar/Discussion

**Grading:** 50% reports/papers, 10% in-class presentation. 40% syllabus

**AMST 8920 Topics in American Studies: Racial Formation in the Americas**

3 credit(s), max credits 9, 3 repeats allowed; Instructor: Karjanen, David J

**Description:** Racial Formation in the Americas: This graduate seminar examines theories of racial formation in the United States, and regionally in the Americas, from historical, cultural, and political perspectives. Interdisciplinary readings will provide both theoretical and historical overviews which will be examine through different topics, including the legacy of racial formation stemming from slavery, the transformation of race in the cold war period, and contemporary debates about race, transnationality, and globalization. The course will also examine the intersection of race and other forms of social identification such as gender and class as they relate to broader understandings of power in contemporary society.

**AMST 8970 Independent Study in American Studies**

1-9 credit(s), max credits 9, 9 repeats allowed; prereq instr consent, dept consent; Instructor: May, Elaine Tyler

**Description:** Student may contact the instructor or department for information.

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**Course Guide at http://onestop.umn.edu.** IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ANAT 3612 Principles of Human Anatomy Laboratory
2 credit(s); prereq 3001 or 3301 or INMD 3001 or 3301 or Concurrent registration is required (or allowed) in 3601 or Concurrent registration is required (or allowed) in 3611. To register for lab concurrently with lecture, students must successfully register for lecture first. Credit will not be granted if credit received for: ANAT 3002/Anat 3302/Anat 3612/INMD 3602/INMD 3302; Credit will not be granted if credit has been received for: ANAT 3612; Instructor: Weinhaus PhD, Anthony James
Description: Cadaveric examination of Human Anatomy, including: Gross (macroscopic) anatomy, histology (microscopic anatomy), Neuroanatomy (nervous system), and embryology (developmental anatomy). This course has been renamed from ANAT 3001. (It is advised that students take Principles of Human Anatomy laboratory with this lecture). Prerequisites are: At least sophomore status, and completion of Biol 1001/1002 or 1009 (or equivalent). Style: 100% Lecture.
Grading: 8% quizzes, 92% additional semester exams.

ANAT 3611 Principles of Human Anatomy
3 credit(s); prereq [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], at least soph; [Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612] recommended credit will not be granted if credit received for: ANAT 3001/Anat 3301/Anat 3611 or ANAT 3001/3301; AND at least sophomore status: AND completion of Biol 1001/1002 or 1009 (or equivalent). Style: 100% Laboratory.
Grading: 100% additional semester exams. A total of 12% extra-credit is available.

ANAT 3602 Principles of Human Anatomy Laboratory
2 credit(s); prereq 3001 or 3301 or INMD 3001 or 3301 or Concurrent registration is required (or allowed) in 3601 or Concurrent registration is required (or allowed) in 3611. To register for lab concurrently with lecture, students must successfully register for lecture first. Credit will not be granted if credit received for: ANAT 3002/Anat 3302/Anat 3612/INMD 3602/INMD 3302; Credit will not be granted if credit has been received for: ANAT 3612; Instructor: Weinhaus PhD, Anthony James
Description: Cadaveric examination of Human Anatomy, including: Gross (macroscopic) anatomy, histology (microscopic anatomy), Neuroanatomy (nervous system), and embryology (developmental anatomy). This course has been renamed from ANAT 3002. ANAT 3602 and 3612 are identical. (This lab is designed to supplement the lecture course (Principles of Human Anatomy). Prerequisites are: Concurrent registration or previous completion of ANAT 3601/3611 or ANAT 3001/3301; AND at least sophomore status: AND completion of Biol 1001/1002 or 1009 (or equivalent). Style: 100% Laboratory.
Grading: 100% additional semester exams. A total of 12% extra-credit is available.

Animal Science
305 Haecker Hall

ANSC 1101 Introductory Animal Science
4 credit(s);
Instructor: Seykora, Anthony James
Description: This course is an introduction to animal science with emphasis on genetics, physiology and nutrition. Production systems relative to the horse, dairy, sheep, poultry, swine and beef industries are introduced. Additional topics include man’s relationship to animals, current issues and future perspectives of animal agriculture.
Style: 70% Lecture, 10% Discussion, 20% Laboratory.
Grading: 40% mid exam, 20% final exam, 10% laboratory evaluation, 30% problem solving.
Exam Format: Multiple choice and short answer.

ANSC 1403 Companion Animal Nutrition and Care
3 credit(s);
Instructor: Stern, Marshall D
Description: This course is designed for individuals having no prior training with animals or nutrition, but have an interest in caring for and understanding the contemporary importance of companion animals. Emphasis will be on nutrition of healthy animals and the various factors that play a role in feeding an animal adequately, including animal behavior, environmental conditions, food type and availability. The course will emphasize basic principles of nutrition and one of the goals will be to make the student aware of their own nutrition, as these principles apply to humans also. Other course goals will be to have the student be a responsible pet owner and enhance their appreciation of companion animals. The target audience of this course is all undergraduate students interested in companion animals and their nutrition and care. The course will focus on companion animals, but not exclusively dogs and cats.
Style: 100% Lecture.
Grading: 100% other evaluation. Each of the 3 exams worth 33% each.

ANSC 2012 Livestock and Carcass Evaluation
3 credit(s);
Instructor: Rozeboom, Kyle James
Description: Student may contact the instructor or department for information.

ANSC 2211 Biometrics for Livestock
Description: Statistics with emphasis on biological data, especially evaluation of livestock. Topics will include descriptive statistics, probability, correlation, regression, analysis of variance, and interpretation of results of experiments. Course is geared to the casual user and student of livestock research information. Emphasis will be on gaining an appreciation for statistical analysis of theoretical data, and its contribution to improved livestock well-being and management. Participation is classroom discussion will be encouraged.

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 25% mid exam, 25% final exam, 50% problem solving.

**ANSC 3007 Equine Nutrition**

3 credit(s); prereq 2401;

**Instructor:** Hathaway, Marcia R

**Description:** This course will include the basic principles of nutrition with emphasis on the unique aspects of equine nutrition. Emphasis will be on nutritional needs of healthy animals as well as the various factors that play a role in feeding an animal adequately. These factors include animal behavior, growth and development, physiological status, environmental conditions, food type and availability. The course will focus on developing an understanding of how the physiology of the horse's gastrointestinal tract, the utilization of feedstuffs and the horse's nutritional requirements influence. Students will learn how to formulate balanced rations and avoid nutritional related ailments. Students will learn how to seek and interpret information so they can make decisions on important issues such as pasture management, forage selection and the use of dietary feed additives and enhancers. Course Objectives: As a result of taking this course, students will be able to: 1. develop or enhance their appreciation of the nutritional requirements of the horse. 2. recognize the rationale behind the change in nutritional requirements of horses at different stages of development and under different physiological demands change. 3. become familiar with the physiology of the equine gastrointestinal tract. 4. understand the basic management skills that are required for the proper feeding of horses to avoid nutritional based ailments. 50% mid exam, 20% final exam, 20% laboratory evaluation, 20% problem solving.

**Exam Format:** short answer

**ANSC 3141 Advanced Dairy Judging**

1 credit(s); prereq 2011 or instr consent;

**Instructor:** Hansen, Leslie Bennett

**Description:** Especially for students interested in competing with the intercollegiate dairy cattle judging team. A weekly class of four dairy cows will be selected for which oral reasons will be prepared. The one set of reasons each week will be presented numerous times to improve technique.

**Style:** 100% Discussion.

**Grading:** 100% in-class presentation.

**ANSC 3023W Environment, Global Food Production, and the Citizen**

3 credit(s); Credit will not be granted if credit has been received for: AGRO 3023W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; meets CLE req of Writing Intensive;

**Instructor:** Simmons, Steve Robert

**Description:** Sustainable production of food is crucial to survival. Different agricultural ecosystems have developed around the world that are influenced by and have an impact on the environment. Course examines how the environment constrains the capacity to produce food and the impact of agriculture on the environment. Topics include ecological properties of agricultural ecosystems, issues of biodiversity, natural resource conservation, pollution, water and waste management. The course utilizes interactive television to provide a media experience and features teaching methods that will allow students to resolve actual dilemmas. Students with no prior exposure to agriculture are encouraged to enroll. An introductory knowledge of biological concepts would be helpful.

**Style:** 45% Lecture, 45% Discussion. decision cases

**Grading:** 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.

**Exam Format:** short essay and multiple choice

**ANSC 3307 Artificial Insemination Techniques**

S-N only, 1 credit(s); prereq instr consent;

**Instructor:** Seykora, Anthony James

**Description:** Hands-on training and techniques of artificial insemination at an off-campus laboratory setting. Proper techniques of AI and semen handling, and criteria for selection of bulls.

**ANSC 3501 Farm Animal Environment**

3 credit(s); prereq [3301, Jr] or instr consent;

**Instructor:** El Halawani PhD, Mohamed E

**Description:** Student may contact the instructor or department for information.

**ANSC 3509 Animal Biotechnology**

3 credit(s); prereq Biol 4003 or instr consent;

**Instructor:** Fahrendorf, Scott Christopher

**Description:** Student may contact the instructor or department for information.

**ANSC 3511 Animal Growth and Development**

3 credit(s); prereq College-level biology course;

**Instructor:** White, Michael Ernest

**Description:** Principles of animal growth. Interaction of nutrition, hormones, exercise, heredity, and disease in regulating growth.

**ANSC 3801 Livestock Marketing**

3 credit(s); prereq Jr or sr or instr consent;

**Instructor:** Rozeboom, Kyle James

**Description:** Student may contact the instructor or department for information.

**ANSC 4011 Dairy Cattle Breeding**

3 credit(s); prereq 3221;

**Instructor:** Hansen, Leslie Bennett

**Description:** This course is very applied in nature. Some problem solving assignments may be hypothetical, but in most cases, real circumstances are discussed. Much class time is devoted to discussion. The course has been popular with international students in the MAST program. Because dairy cattle genetics from the US has had a major impact on dairy cattle worldwide, the international flavor of discussions is very appropriate. There is some straight lecture, but this is usually sprinkled with questions that are followed by discussion. The instructor attempts to have students address questions that are raised and jointly arrive at a solution. Quantitative genetic principles are the primary focus, with rates of genetic improvement and systems of breeding emphasized.

**Style:** 35% Lecture, 40% Discussion, 25% Laboratory.

**Grading:** 20% mid exam, 20% final exam, 30% special projects, 30% problem solving.

**Exam Format:** Short answer, essay

**ANSC 4096 Professional Experience Program: Internship**

S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;

**Instructor:** Hansen, Leslie Bennett

**Description:** Students may contact the instructor or department for information.

**ANSC 4096 Professional Experience Program: Internship**

S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;

**Instructor:** Hansen, Leslie Bennett

**Description:** Student may contact the instructor or department for information.
ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: White, Michael Ernest
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Hathaway, Marcia R
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Shurson, Gerald C
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Mauro, Laura J.
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Ward, Christie
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Raeth-Knight, Mary Louise
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Crooker, Brian A
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Stern, Marshall D
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Foster, Douglas N
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: O’Grady, Scott M
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Dayton, William R
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: Wheaton, Jonathan E
Description: Student may contact the instructor or department
for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 1 repeat allowed;
prereq COAFES undergrad, instr consent, complete
internship contract available in COAFES Career Services
before enrolling; UC only;
Instructor: El Halawani, Mohamed E
Description: Student may contact the instructor or department
for information.

ANSC 4099 Special Workshop in Animal Science
1-4 credit(s), max credits 24, 6 repeats allowed;
Instructor: Reneau, Jeffrey Kimball
Description: Student may contact the instructor or department
for information.
ANSC 4099 Special Workshop in Animal Science
1-4 credit(s), max credits 24, 6 repeats allowed;
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

ANSC 4403 Ruminant Nutrition
3 credit(s); prereq 2401;
Instructor: Stern, Marshall D
Description: This course involves lectures and laboratory to focus on nutrient requirements of ruminants, physiology of digestion in ruminants, nutrient content of feedstuffs, primarily forages; energy utilization, protein and nonprotein nitrogen utilization; nutritional disorders; and formulation of adequate rations. Student objectives are to: 1) understand the processes of digestion and the utilization of nutrients by ruminants, 2) understand the systems used to describe nutrient requirements of ruminants, 3) be able to formulate adequate rations for maintenance and production, and 4) have a general knowledge of nutritional disorders and deficiencies. The target audience of this class is undergraduate/graduate students with an interest in nutrition of the ruminant species.
Style: 60% Lecture, 40% Laboratory.
Grading: 40% laboratory evaluation, 60% other evaluation exams
Exam Format: fill-in-the-blanks, definitions, true/false, matching

ANSC 4601 Pork Production Systems Management
4 credit(s); prereq Concurrent registration is required (or allowed) in 4611 4611;
Instructor: Shurson, Gerald C
Description: This course is focused on the management of biology and business of pork production systems. This course is a web-assisted course where weekly assignments, course materials and communications will be posted at: <a href="http://webCT.umn.edu/">http://webCT.umn.edu/</a>
Style: 65% Lecture, 10% Discussion. videotapes and in-class assignments
Grading: 50% mid exam.
Exam Format: combination of multiple choice, true/false, essay, matching, short answer

ANSC 4602 Sheep Production Systems Management
4 credit(s);
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

ANSC 4604 Dairy Production Systems Management
4 credit(s); prereq Concurrent registration is not allowed in 4614;
Instructor: Reneau, Jeffrey Kimball
Description: This course is focused on the management of biology and business of pork production systems. This course is a web-assisted course where weekly assignments, course materials and communications will be posted at: <a href="http://webCT.umn.edu/">http://webCT.umn.edu/</a>
Style: 65% Lecture, 10% Discussion. videotapes and in-class assignments
Grading: 50% mid exam.
Exam Format: combination of multiple choice, true/false, essay, matching, short answer

ANSC 4611 Advanced Pork Production Systems Management
2 credit(s); prereq 4601;
Instructor: Seykora, Anthony James
Description: This course involves lectures and laboratory to focus on nutrient requirements of ruminants, physiology of digestion in ruminants, nutrient content of feedstuffs, primarily forages; energy utilization, protein and nonprotein nitrogen utilization; nutritional disorders; and formulation of adequate rations. Student objectives are to: 1) understand the processes of digestion and the utilization of nutrients by ruminants, 2) understand the systems used to describe nutrient requirements of ruminants, 3) be able to formulate adequate rations for maintenance and production, and 4) have a general knowledge of nutritional disorders and deficiencies. The target audience of this class is undergraduate/graduate students with an interest in nutrition of the ruminant species.
Style: 60% Lecture, 40% Laboratory.
Grading: 40% laboratory evaluation, 60% other evaluation exams
Exam Format: fill-in-the-blanks, definitions, true/false, matching

ANSC 4614 Advanced Dairy Production Systems Management
2 credit(s); prereq 4604;
Instructor: Reneau, Jeffrey Kimball
Description: This is a continuation of 4604 (see description of 4604). To enroll in this class students must have previously completed ANSC 4604. The intent of this class is to provide dairy management students with additional problem solving skill and experience.

ANSC 4617 Molecular Biology Techniques
3 credit(s); prereq BioC 4332, Biol 4003; Credit will not be granted if credit has been received for: CMB 8335;
Instructor: Foster, Douglas N
Description: Student may contact the instructor or department for information.

ANTH 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: Thompson, Robert Gordon
Description: Students enrolled in this course should have successfully completed AnSc 4601 concurrently. Advanced Pork Production Systems Management will focus on concepts and application of new emerging technologies in the pork industry, pork chain management, and experience developing tools to improve operational systems management.
Style: 20% Lecture. student presentations and in-class assignments
Grading: 50% reports/papers, 50% class participation

ANTH 8211 Animal Growth and Development
3 credit(s); prereq instr consent;
Instructor: Dayton, William R
Description: Student may contact the instructor or department for information.

ANTH 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: Tappen, Martha
Description: Humans are unique in the animal world. In this class, we will take a journey through time to examine the evolution of humans, and how natural selection - the same process that gives the butterfly its wings, the horse its speed, and the worm its wiggle - also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organisms (primarily monkeys and apes). In the second half of the course we will attempt to reconstruct the ecology, diet, anatomy, locomotion and even the social behavior of the hominids (human ancestors) using the evolutionary principles learned in the first half of the course. Among the &quot;big questions&quot; in human evolution;&quot; that we will address are: What were the earliest hominids, the australopithecines, like? How did climate change affect macro- and micro-evolutionary patterns? How does tool use and...
anthropology

ANTH 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: McNulty,Kieran P
Description: Humans are unique in the animal world. In this class, we will take a journey through time to examine the evolution of humans, and how natural selection - the same process that gives the butterfly its wings, the horse its speed, and the worm its wiggle - also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organism (primarily monkeys and apes). In the second half of the course we will attempt to reconstruct the ecology, diet, anatomy, locomotion and even the social behavior of the hominids (human ancestors) using the evolutionary principles learned in the first half of the course. Among the "big questions in human evolution" that we will address are: What were the earliest hominids, the australopithecines, like? How did climate change affect macro-and micro-evolutionary patterns? How does tool use and culture feed back upon our bodies? How far back in time does modern human behavior date, and what is the evidence for it? When and where did our species, Homo sapiens, in its modern form, originate?
Style: 50% Lecture, 50% Laboratory.
Exam Format: 45% mid exam, 20% final exam, 5% reports/papers, 30% laboratory evaluation.
Exam Format: Multiple choice

ANTH 1001H Honors: Human Evolution
4 credit(s); prerequisite honors; Meets CLE req of Biological Sciences/Lab Core;
Instructor: Tappen,Martha
Description: Student may contact the instructor or department for information.

ANTH 1003W Understanding Cultures
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Introduction to social and cultural anthropology for undergraduate majors and non-majors. Comparative study of societies and cultures around the world. Topics include adaptive strategies: economic processes; kinship, marriage and gender, social stratification; politics and conflict; religion and ritual; personality and culture. We will survey a variety of human cultures and explore theories about the evolution, function and meaning of culture.
Style: 75% Lecture, 25% Discussion.
Exam Format: Multiple choice; essay

ANTH 1005V Introduction to Cultural Diversity and the World System
A-F only, 4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Raheja,Gloria Goodwin
Description: Student may contact the instructor or department for information.

ANTH 3003 Cultural Anthropology
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3003;
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

ANTH 3009 Rise of Civilization
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Wells, Peter S
Description: Examines the development of complex societies, from early hunter-gatherer groups through settled agricultural villages, to the rise of towns and cities. Comparison of processes of change in ten regions of the world. Intended for all undergraduates.
Style: 95% Lecture, 5% Discussion.
Grading: 45% mid exam, 35% final exam, 20% reports/papers.
Exam Format: multiple choice, essay

ANTH 3015W Biology, Evolution, and cultural Development of Language
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3015W; Meets CLE req of Writing Intensive;
Instructor: Beeman, William O
Description: Language is the most human form of behavior, and the investigation of the ways language and culture interact is one of the most important aspects of the study of human beings. The most fascinating problem in this study is how language itself may have evolved as the result of the interaction between biological and cultural development of the human species. In this course we will consider the development of the brain, the relationship between Early Humans, Neanderthals and Modern Humans, and such questions as the role of gossip and music in the development of language. There will be two written exercises and a final examination. The exercises will ask for responses to one of a range of questions posed by the instructor. The first will cover the biological bases for language. The second will cover evolution and the questions raised by comparing animal and human communicative behavior. The final 10-15 page research paper (14-21 pages for students enrolled in 5015) will cover a topic of specific interest relating to the subject of language evolution and the controversies surrounding it, worked out in consultation with the course instructor. Students enrolled in 3015 may restrict their research to course resources. Students enrolled in 5015 will be expected to go beyond course readings in their research.
Style: 60% Lecture, 20% Film/Video, 10% Discussion, 10% Guest Speakers.
Grading: 50% mid exam, 40% reports/papers, 10% class participation. Short papers--20% each, term paper 50%
Exam Format: No in-class exams

ANTH 3022W Anthropology of Dreaming and Myth
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Ingham, John M
Description: This course offers an overview of anthropological research on dreaming and myth. It explores universal features of dreaming and myth as well as how they vary in different cultural settings. We see how dreams and myths use symbolism and other figurative devices to convey meaning, and we consider approaches to understanding their functions and organization. We also see how dreams appear in myths and how myths influence dreams. Dreams and myths, in turn, allow us to pose questions about the interrelation between individual personality and culture, and about the role of fantasy in human life.
Style: 70% Lecture, 30% Discussion.
Grading: 30% mid exam, 25% final exam, 45% reports/papers.
Exam Format: essay and short answer
ANTH 3023 Culture and Society of India
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3961; Meets CLE req of International Perspective Theme; Meets CLE req of Social Science Core; Instructor: Reheja,Gloria Goodwin
Description: Student may contact the instructor or department for information.

ANTH 3028 Introduction to Historical Archaeology
A-F only, 3 credit(s);
Instructor: Hayes,Katherine F. H.
Description: In this course we will explore the theories and methods of historical archaeology. In particular we will consider what it is that distinguished historical archaeology from the broader discipline, and how those differences are parlayed into specific research strengths. This includes several themes: colonialism; the modern world and globalizing economies; social identities (race and ethnicity, class, sex and gender, religion, age); social memory and commemoration; landscapes and social space; citizenship and subjectivity. Although historical archaeology until recently has been restrictively defined as addressing the European-colonized New World, the discipline in the past ten years has significantly broadened its scope and impact on the practice of archaeology as a whole. Throughout the course we will discuss these developments, and what directions archaeology may take in the future as a result. Course work includes both reading/discussion and learning methods through practical exercises.
Style: 50% Lecture, 30% Discussion, 20% Laboratory.
Grading: 20% mid exam, 20% final exam, 20% special projects, 20% class participation, 20% laboratory evaluation.

ANTH 3029 Archaeology of Native Americans
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Gibbon,Guy E
Description: This course provides a contemporary understanding of the pre-Columbian and historic-era cultural histories and social landscapes north of Mesoamerica. The course readings, activities, and discussions will review all portions of the continent from early Paleoinidians to later sedentary, warring, and agricultural peoples. Particular regions and time periods contribute to an understanding of theoretical issues concerning the timing and process of the initial peopling of the Americas, food production and the origins of domestication, regional systems of exchange, development of social hierarchies, and the rise and fall of chiefdoms, colonial encounters between Europeans and Native Americans, and the historical archaeology of Europeans and Africans in colonial America. These perspectives present us with whole chapters of the human experience brought into view through archaeology. Class evaluation will be based on a midterm (40%) and final (60%) examination. Our text is Seeking Our Past: An Introduction to North American Archaeology by Sarah Neusius and Timothy Gross (2007, Oxford U Press).
Style: 85% Lecture, 5% Discussion, 5% Laboratory.
Grading: 35% mid exam, 45% final exam, 20% reports/papers.
Exam Format: Essay, concept identification

ANTH 3043 Art, Aesthetics and Anthropology
3 credit(s); Meets CLE req of International Perspective Theme;
Instructor: Currie,Scott
Description: Art, Aesthetics & Anthropology: Exploring the Production of Meaning This course will examine the relationship of art to culture from multiple perspectives, including: art as a cultural system; the cultural context of art production; the role of the artist in different cultures; & methodological considerations in the interpretation of art across cultural boundaries. More specifically, we will be drawing upon the work of scholars and artists to consider art worlds from a cross-cultural perspective, in order to gain insight into how and why people come to participate in aestheticized practices of cultural production and consumption. We'll be paying particular attention to the manner in which cosmopolitan fields of artistic production both reflect and reproduce existing structures of dominant Western (postmodernist) and indigenous and non-Western perspectives. On one hand, and widespread in indigenous art worlds, there is an understanding of art works to negotiate and/or contest them, on the other, through affective experiences that expand vistas of subjectivity and identity. Course Objective: To develop and put into action a critical, responsible, and effective ethnographic understanding of aesthetic practice.
Style: 35% Lecture, 5% Film/Video, 40% Discussion, 10% Student Presentation, 10% Field Trips.
Grading: 50% reports/papers, 5% quizzes, 20% reflection paper, 10% in-class presentation, 10% class participation, 5% other evaluation, unexcused absences may effect grade; students may submit field journals for evaluation purposes.

ANTH 3143 American Indian Languages and Cultures
3 credit(s); Credit will not be granted if credit has been received for: AMIN 3143; Meets CLE req of Cultural Diversity Theme; Meets CLE req of Social Science Core;
Instructor: Nichols,John David
Description: This is a survey of North American indigenous languages in social and cultural contexts from before European contact to the present. We will study the relations between the indigenous nations of North America and their languages. How many distinct peoples and languages are there? How are they related to each other or to peoples and languages elsewhere in the world? How do the languages reflect the cultures of their speakers? Is there grammar in indigenous languages? How do language change? What do the languages have to tell us about the history of North America? Can literature be oral and unwritten? Some of things to be encountered are: Eskimo words for snow, sound symbolism, Plains sign language, Navaajo code talkers, Sequoyah's invention of Cherokee writing; evidence and testimony in speaking Ojibwe, men's and women's speech, Michif - a mixed Native-French language of the Red River, North American place-names, Kickapoo whistle speech, ways of counting, and much more.
Style: 80% Lecture, 20% Discussion.
Exam Format: essay and multiple choice

ANTH 3242 Hero, Savage, or Equal? Representations of NonWestern Peoples in the Movies
A-F only, 3 credit(s);
Instructor: Lipset,David M
Description: This course will explore images of nonWestern peoples and cultures as they have appeared in the movies and in other popular media. It has four aims: 1) to introduce the problem of nonWestern peoples in the West from historical points of view, 2) to discuss the relationship between mass media and issue of representation to the marketplace, 3) to introduce the concept of morality in and through collective representations as developed by Durkheim, and 4) to analyze the problem of moral agency in a series of Hollywood and Independent movies which portray nonwestern peoples and cultures. We will watch movies portraying three different groups of cultures, Pacific Islanders, Native Americans, and the Japanese. In each unit, we will first read important commentary on Western representations of each of these peoples, such as Bernard Smith on Pacific Islanders and Vine Deloria on images of Native Americans and Gina Marchetti on Hollywood's Japanese.
Style: 30% Lecture, 50% Film/Video, 10% Discussion, 10% Small Group Activities.
Grading: 75% mid exam, 25% final exam.
Exam Format: Multiple-choice and essay

ANTH 3306W Medical Anthropology
A-F only, 4 credit(s); prereq 1003 or 1005 or entry level social science course recommended; Meets CLE req of Cultural Diversity Theme; Meets CLE req of International Perspective Theme; Meets CLE req of Writing Intensive;
Instructor: Patten,Scott
Description: Student may contact the instructor or department for information.

ANTH 3405 Human Skeletal Analysis
A-F only, 3 credit(s); prereq 1001 or instr consent ; Credit will not be granted if credit has been received for: ANTH 3405;
Instructor: McNulty,Kieran P
Description: This course is an introduction to questions related to the identification, description, and interpretation of human skeletal remains. This course will examine for information.
ANTH 3980 Topics in Anthropology: Cultural Heritage
3 credit(s), max credits 6;
Instructor: Anfinson, Scott F
Description: Student may contact the instructor or department for information.

ANTH 3980 Topics in Anthropology: On Human Nature
3 credit(s), max credits 6;
Instructor: Sarles, Harvey B
Description: Student may contact the instructor or department for information.

ANTH 3980 Topics in Anthropology: Minnesota Archaeology
3 credit(s), max credits 6;
Instructor: Gibbon, Guy E
Description: Anth 3980/5990 Minnesota Archaeology is a survey of, as the title indicates, Minnesota archaeology. The course introduces the major archaeological cultures, pottery types, projectile points, and other artifacts and features of the state's archaeological record. Both pre-contact and historic period archaeology are discussed, as well as the history of archaeology in the state. The course uses four recently completed online books that can be read either online or downloaded at no cost except for printing if the download option is chosen. Course grades are determined by a midterm (30%) and final (50%) exam, and by several map and artifact identification practicals (20%) in which you learn to become familiar with typical Minnesota artifacts. The emphasis is on learning the fundamentals of Minnesota archaeology. The course is designed for all levels of interest and background.

ANTH 3980 Topics in Anthropology: Magic and Modernity
3 credit(s), max credits 6;
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

ANTH 3980 Topics in Anthropology: Global Migration & Photography
3 credit(s), max credits 6;
Instructor: Wolpert, Barbara
Description: This course on the social use of photography in the context of global migration bridges between migration research and media studies. Concerned with questions of migrants? visual communication, memory, and representation, it covers basic concepts of visual cultural studies and fieldwork techniques. Investigating in particular the significance of photographs in coping with migration, this course touches upon a central feature of photography - its ability to make present the absent. Rather than as recipients of images produced by mass media we look at immigrants as producers of images: Our point of departure is the socially extremely effective but often-underestimated individual image production. We will focus on private photographs taken, owned and circulated by migrants. These photographs, which may or may not depict immigrants, refugees or displaced persons open insights into immigrants? lives on multiple levels. Beyond the study of the narratives of those who are in the photo and of those, who took it and who hold on to it, the study of practices of collecting, framing, and displaying of photographs allows us to better understand processes of identification. By comparing earlier photograph collections of migrant families to more recent snapshots - analogue and digital - as well as to migrants? video, internet, and mobile phone practices, we will explore immigrants? changing sense of place and their migratory concepts. We will hence discuss legacies of first generations of immigrants and constructions of neighborhoods, real and virtual. In a second step we juxtapose these visual practices with visual representations of migration in the press and other mass media, using them as a key to public discourses on migration, shaping immigration policies and integration politics.
Style: 40% Lecture, 5% Film/Video, 40% Discussion, 10% Student Presentation, 5% Field Trips.
Grading: 55% reports/papers, 10% quizzes, 15% in-class presentation, 20% class participation. Each student will keep a journal (field experience, homework, reactions to the readings, an annotated collection of images) to be submitted on a voluntary basis for extra credit (up to 0.5 of final grade).

ANTH 4001 Advanced Method and Theory in Archaeology
3 credit(s); prerequisite 1001 or 3001;
Instructor: Monnier, Gilliane F
Description: This course is designed as an advanced introduction to the discipline of American archaeology for undergraduate majors. It will provide a background in archaeological theory and illustrate how it shapes methodology, from research design to data analysis and interpretation. We will begin by tracing the history of theory in archaeology and exploring the major figures, debates and themes which have shaped archaeology today. As part of this process we will focus on the culture-historical approach of the mid-20th century, the impact of the New Archaeology beginning in the 1960s, and the post-processual critique of the 1980s and 90s. We will study the methods developed and emphasized within each intellectual trend, and their impact on the practice of archaeology. We will also explore the diversity of theoretical approaches within the last decade. This course will provide students with the foundation necessary for understanding and evaluating current trends within the discipline, and will inform and help refine their own research.

ANTH 4007 Laboratory Techniques in Archaeology
1-4 credit(s), max credits 12, 3 repeats allowed; prerequisite consent Credit will not be granted if the student has already completed Anth 3007;
Instructor: Soderberg, John A
Description: Student may contact the instructor or department for information.

ANTH 4019 Symbolic Anthropology
3 credit(s); prerequisite 1093 or 1005 or grad student or instructor consent; Credit will not be granted if credit has been received for: ANTH 8211;
Instructor: Ingham, John M
Description: This course offers an introduction to symbolic or semiotic anthropology for upper-level students and graduate students. Symbolic anthropology is a way of understanding cultures as systems of symbols, meanings, and intentions. Cultures are understood as "symbolic orders" or, alternatively, as arenas comprising meaningful discourse and counter-discourse. In either view, they are something more than disconnected habits or practices. Symbolic anthropology focuses on figurative rather than literal meanings. It also focuses on expressive culture (e.g., folklore, myths, humor, political speech). Topics in symbolic anthropology include: totemism, ritual pollution; taboo; rites of transition; divine kinship; fertility rituals; folk medicine; body mutilation, tattooing, and cosmetics; and symbolic constructions of gender relations. The course asks how symbolic practices represent social and political values and unconscious wishes.

ANTH 4075 Cultural Histories of Healing
A-F only, 3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Langford, Jean M
Description: In this course we examine dynamic interrelationships among healing practices, especially the history and politics of influence, counter-influence, dissemination and conflict. How are healing practices embodied in colonial and postcolonial encounters? What are the stakes involved in defining a healing practice as belonging to a certain cultural group? What are the connections between medical perception and historically contingent orientations toward language, social life and the body? To explore such questions we draw on ethnographies and histories of modern Euro-American medicine (biomedicine), classical Asian healing practices (Ayurveda and Chinese medicine), and trance-based and &quot;shamanic&quot; healing practices. We consider the legacy of ancient Greek medicine and its divergence from ancient Chinese medicine, the rise of an anatomically based medicine in Europe; the colonial dissertation of biomedicine; the refashioning of local healing
practices in postcolonial contexts; the micropolitics of biomedical knowledge (from dominant metaphors of medicine to the social construction of disease categories); the relationship of medicine to marginalization and injustice; and the transnational market in indigenous healing. Emphasis will be on class discussions and two short papers related to the readings and films. The course will concentrate on learning to think creatively and critically about cultural and historical dimensions of medicine. Designed for juniors and above.

**Style:** 25% Lecture, 65% Discussion, films

**Grading:** 70% reports/papers, 30% class participation.

### ANTH 4077 Neanderthals: Biology and Culture of Humanity’s Nearest Relative

**3 credit(s); prereq 1001 or 3001 or 3002 or instr consent ; Meets CLE req of Social Science Core; Instructor:** Monnier, Gilliane F

**Description:** Ever since the discovery of the first Neanderthal skull in Germany in 1856, debate has raged in science as in popular culture over the degree of humanity of Neanderthals, our closest prehistoric relatives. Were they shuffling, depraved cannibals, or intelligent and caring beings? Did they lack the qualities we define as uniquely human, such as language and the ability to produce art, or did they create the first symbolic objects, care for their wounded and their dead, and develop complex tool kits? In this course we will review the fossil, archaeological, and genetic evidence on the origins, adaptations, and ultimate fate of the Neanderthals. In addition, we will examine the shifting views on Neanderthals in relation to the changing intellectual and sociopolitical climate of the last 150 years. The course concludes by tackling the controversial and often emotional topic of whether Neanderthals were our direct ancestors, or a side-branch which competing modern humans slaughtered into extinction in what some have called the “Pleistocene Holocaust.”

### ANTH 5015W Biology, Evolution, and Cultural Development of Language

**3 credit(s); Credit will not be granted if credit has been received for: ANTH 3015W; Meets CLE req of Writing Intensive; Instructor:** Beeman, William O

**Description:** Language is the most human form of behavior, and the investigation of the ways language and culture interact is one of the most important aspects of the study of human beings. The most fascinating problem in this study is how language itself may have evolved as the result of the interaction between biological and cultural development of the human species. In this course we will consider the development of the brain, the relationship between Early Humans, Neanderthals and Modern Humans, and such questions as the role of gossip and music in the development of language. There will be two written exercises and a final examination. The exercises will ask for responses to one of a range of questions posed by the instructor. The first will cover the biological bases for language. The second will cover evolution and the questions raised by comparing animal and human communicative behavior. The final 10-15 page research paper (14-21 pages for students enrolled in 5015) will cover a topic of specific interest related to the subject of language evolution and the controversies surrounding it. Worked out in consultation with the course instructor. Students enrolled in 5015 may restrict their research to course resources. Students enrolled in 5015 will be expected to go beyond core readings in their research.

**Style:** 60% Lecture, 20% Film/Video, 10% Discussion, 10% Guest Speakers.

**Grading:** 50% mid exam, 40% reports/papers, 10% class participation. Short papers—20% each, term paper 50%

**Exam Format:** No in-class exams

### ANTH 5269 Analysis of Stone Tool Technology

**A-F only, 4 credit(s); prereq 1001 or 3001 or instr consent; Instructor:** Tostevin, Gilbert B

**Description:** An archaeologist once stated &quot;Love is fickle but stone tools are forever.&quot; This course takes this principle to heart in order to teach serious undergraduates and beginning graduate students how archaeologists can learn what it means to be human through the study of our ancestors’ stone tools. From a scientific point of view, as the vast majority of human existence has been spent using stone tools as the primary medium for the interaction between humans and the environment, understanding the causes of change in stone tool variation through time is fundamental to understanding the human past. The goals of this course include 1) a comprehensive survey of known stone tool making processes (known as flintknapping), 2) a critical examination of different traditions of studying stone tools among archaeologists around the world, and 3) practical experience with analyzing an entire stone tool collection from an experimental archaeological site in order to reconstruct the behaviors, from procurement of raw stone to the discard of the exhausted tools, which produced the site and its collection. This course also provides students with hands-on experience in the practice of making stone tools for analysis. This is a practical laboratory class: the successful completion of this course will allow you to perform the tasks required of archaeologists currently working in the Cultural Resource Management industry. Space is limited so please email toste003@umn.edu to enroll.

**Style:** 20% Lecture, 50% Laboratory. hands-on flintknapping; 5% films

**Grading:** 45% other evaluation, laboratory reports; 30% final paper; 15% two in-class quizzes; 10% discussion participation

**Exam Format:** multiple choice and short answer

### ANTH 5325 The Art of the Aztec Empire

**3 credit(s); Credit will not be granted if credit has been received for: ARTH 5325; Instructor:** Afanador Pujol, Angelica Jimena

**Description:** Student may contact the instructor or department for information.

### ANTH 5405 Human Skeletal Analysis

**A-F only, 3 credit(s); prereq 1001 or instr consent ; Credit will not be granted if credit has been received for: ANTH 3405; Instructor:** McNulty, Kieran P

**Description:** Student may contact the instructor or department for information.

### ANTH 5446 Archaeology of Representation as Communication

**A-F only, 3 credit(s); Instructor:** Wells, Peter S

**Description:** The seminar examines uses of representations - paintings, sculptures, drawings, photographs - as means of communication, from the earliest representations of 30,000 years ago to the present day.

**Style:** 80% Discussion, 20% Student Presentation.

**Grading:** 50% reports/papers, 10% special projects, 30% in-class presentation, 10% class participation

### ANTH 5980 Topics in Anthropology: Pragmatism

**3 credit(s), max credits 6; Instructor:** Saries, Harvey B

**Description:** Student may contact the instructor or department for information.

### ANTH 5980 Topics in Anthropology: Magic and Modernity

**3 credit(s), max credits 6; Instructor:** McLean, Stuart J

**Description:** Student may contact the instructor or department for information.

### ANTH 5990 Topics in Archaeology: Cultural Heritage

**A-F only, 3 credit(s), max credits 9, 3 repeats allowed; Instructor:** Anfinson, Scott F

**Description:** Student may contact the instructor or department for information.
ANTH 5990 Topics in Archaeology: Phytolith Analysis in Archaeology
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Thompson, Robert Gordon
Description: Student may contact the instructor or department for information.

ANTH 5990 Topics in Archaeology: Minnesota Archaeology
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Gibbons, Guy E
Description: Anth 3980/5990 Minnesota Archaeology is a survey of, as the title indicates, Minnesota archaeology. The course introduces the major archaeological cultures, pottery types, projectile points, and other artifacts and features of the state’s archaeological record. Both pre-contact and historic period archaeology are discussed, as well as the history of archaeology in the state. The course uses four recently completed online books that can be read either online or downloaded at no cost except for printing if the download option is chosen. Course grades are determined by a midterm (30%) and final (50%) exam, and by several map and artifact identification practicals (20%) in which you learn to become familiar with typical Minnesota artifacts. The emphasis is on learning the fundamentals of Minnesota archaeology. The course is designed for all levels of interest and background.

ANTH 5990 Topics in Archaeology: Historic Archaeology
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Hayes, Katherine F. H
Description: In this course we will explore the theories and methods of historical archaeology. In particular we will consider what it is that distinguished historical archaeology from the broader discipline, and how those differences are parlayed into specific research strengths. This includes several themes: colonialism; the modern world and globalization; social identities (race and ethnicity, class, sex and gender, religion, age); social memory and commemoration; landscapes and social space; citizenship and subjectivity. Although historical archaeology until recently has been restrictively defined as addressing the European-colonized New World, the discipline in the past ten years has significantly broadened its scope and impact on the practice of archaeology as a whole. Throughout the course we will discuss these developments, and what directions archaeology may take in the future as a result. Course work includes both reading/discussion and learning methods through practical exercises.
Style: 50% Lecture, 30% Discussion, 20% Laboratory.
Grading: 20% mid exam, 20% final exam, 20% special projects, 20% class participation, 20% laboratory evaluation.

ANTH 8004 Foundations of Anthropological Archaeology
3 credit(s); prereq 8001, 8002;
Instructor: Hayes, Katherine F. H
Description: Student may contact the instructor or department for information.

ANTH 8005 Linguistic Anthropology
A-F only, 3 credit(s);
Instructor: Beeman, William O
Description: This course will be a seminar providing an introduction to the literature of Anthropological Linguistics for graduate students. The course takes an historical approach starting with the 19th Century antecedents of modern linguistics, and tracing the history of anthropological linguistic thought from Franz Boas to modern linguistic anthropologists. Topics such as the use of linguistic analysis for anthropology, the Sapir-Whorf hypothesis (the relationship between language and cognitive functions), ethnography of language, discourse analysis, sociolinguistic theory and performance theory will be covered. The course will also deal briefly with the biology of language. Students wishing a more extensive introduction to the evolution and biology of language should enroll in ANTH5021W. The course will have three short written essays (5-8 pages) during the semester. Students will complete a term paper for the course on a subject of direct interest to their own research dealing with linguistic anthropological issues. These topics should be discussed with the course instructor.

ANTH 8510 Topics in Archaeology
3-9 credit(s), max credits 9, 3 repeats allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

ANTH 8810 Topics in Sociocultural Anthropology:
Ethnographic Methods: Mass Communication Research
2-9 credit(s), max credits 9, 3 repeats allowed;
Instructor: Pedetty, Mark Holmes
Description: Student may contact the instructor or department for information.

ANTH 8810 Topics in Sociocultural Anthropology: Conflict, Anger, Agression
2 credit(s), max credits 9, 3 repeats allowed;
Instructor: Potegal, Michael
Description: Student may contact the instructor or department for information.

### Applied Business
20 Classroom Office Building

ABUS 3301 Introduction to Quality Management
A-F only, 3 credit(s); prereq Introductory statistics;
Instructor: Martens, Scott L
Description: Principles and concepts of managing quality in the context of business applications. Emphasizes improvement of business processes with Six Sigma process improvement methodology. Includes strategy for implementing and leading process improvement, Baldrige Award, ISO 9000, process control, performance measurement systems and Six Sigma.

ABUS 4022 Management in Organizations
A-F only, 3 credit(s); prereq 45 cr completed;
Instructor: Haarklau, Evon A
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

ABUS 4023W Communicating for Results
A-F only, 3 credit(s); prereq 45 cr completed; Meets CLE req of Writing Intensive;
Instructor: Scholder Esq, Lee
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

ABUS 4031 Accessing and Using Information Effectively
A-F only, 3 credit(s); prereq 45 cr completed;
Instructor: Swanson, Trisha Katherine
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

ABUS 4041 Dynamics of Leadership
A-F only, 3 credit(s); prereq 45 cr completed;
Instructor: Kaiser, David
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.
Grading: 60% reports/papers. 12% Group Project 26% Online Discussions

ABUS 4101 Cost Accounting, Analysis, and Control in Organizations
A-F only, 3 credit(s); prereq Financial accounting, 45 cr completed;
Instructor: Vickman, Thomas M
Description: For details on this course, go to
http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

**ABUS 4104 Management and Human Resource Practices**
A-F only, 3 credit(s); prereq 45 cr completed;  
**Instructor:** Benraouane,Sid A.  
**Description:** Introduces students to a broad overview of human resource practices in organizations as well as basic responsibilities of front line managers. Emphasis is on providing day-to-day leadership including organizing work, motivating employees, delegating, coordinating and achieving results. Human resource practices carried out at the front line include selection induction and training of new employees, employee appraisal, handling grievances and discipline.

**ABUS 4321 Evaluating Performance Excellence in Organizations**
S-N only, 3 credit(s); prereq Submit MNQA evaluator application;  
**Instructor:** Lassiter,Brian S  
**Description:** Systematic processes for leadership, quality improvement, and performance excellence. Analyze strengths and improvements using the Baldridge National Quality Award and the Minnesota Quality Award (MnQA) criteria. Students join 2007 MNQA Board of Evaluators and complete team evaluation of MN group seeking MN Quality Award; or approved independent project.

**ABUS 4509 New Product Development**
A-F only, 3 credit(s); prereq [4103 or 4701 or Mktg 3001], at least 45 cr or instr consent ;  
**Instructor:** Flanders,Gordon R  
**Description:** For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

**ABUS 4701 Introduction to Marketing**
A-F only, 3 credit(s); prereq Acct 2050, Econ 1101, 45 cr completed;  
**Instructor:** Aggarwal,Praveen  
**Description:** For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

**Applied Economics**
231 Classroom Office Building

**APEC 1101 Principles of Microeconomics**
3 credit(s); Credit will not be granted if credit has been received for: ECON 1101; Meets CLE req of Social Science Core;  
**Instructor:** Liu,Donald J.  
**Description:** Economics is the study of choices made under conditions of scarcity and is divided into two major subject matter areas: micro and macro economics. This course, Principles of Microeconomics, is concerned mainly with the economic decisions of individual consumers and producers and how they interact under various market and regulatory environments. The major emphasis in the course will be on economic concepts and their applications to current economic issues and day-to-day business operations.  
**Style:** 60% Lecture, 40% Discussion.  
**Grading:** 25% mid exam, 25% final exam, 15% quizzes, 25% other evaluation. Second midterm; 10% Homework assignments  
**Exam Format:** Multiple choice, short answer problem solving, graphical analysis

**APEC 1102 Principles of Macroeconomics**
3 credit(s); prereq 1101 or Econ 1101 no credit will be granted if credit has been received for: Econ 1102 or Econ 1105.; Credit will not be granted if credit has been received for: ECON 1102; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;  
**Instructor:** Parliament,Claudia A  
**Description:** : Economics, the study of choices made under conditions of scarcity, is divided into two major areas: micro and macro economics. This course, Principles of Macroeconomics, is concerned with the behavior of entire economies. The course will focus on the aggregate concepts of economic growth, gross domestic product, unemployment, and inflation. The course will also cover the role of the Federal Reserve Bank and the banking system in creating the money supply and influencing interest rates; budget deficits and the national debt will be discussed. The strengths and weaknesses of using fiscal and/or monetary policy to influence economic growth and stability will be examined. Time permitting, exchange rates and trade deficits will be covered. The course will emphasize the application of macroeconomic concepts to current economic issues.  
**Style:** 60% Lecture, 40% Discussion.  
**Grading:** 30% mid exam, 25% final exam, 15% reports/papers, 15% quizzes, 15% problem solving.  
**Exam Format:** multiple choice, short answer, graphs

**APEC 1102H Honors: Principles of Macroeconomics**
A-F only, 4 credit(s); prereq 1101 or 1101H or ECON 1101; Credit will not be granted if credit has been received for: APEC 1102; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;  
**Instructor:** Ritter,Joe  
**Description:** Student may contact the instructor or department for information.

**APEC 3001 Applied Microeconomics: Consumers, Producers, and Markets**
4 credit(s); prereq [[1101 or Econ 1101], [Math 1142 or Math 1271]] or instr consent ; Credit will not be granted if credit has been received for: ECON 3101; Meets CLE req of Social Science Core;  
**Instructor:** Carlin,Caroline S  
**Description:** This course focuses on the application of microeconomic theory, focusing on both consumer and producer decisions. Starting from a foundation in the fundamental theory of supply and demand, we will learn about markets, pricing, investment, the effects of government regulations, and market failures. The course will be primarily lecture, but discussion will be generated through in-class exploration of problem solving. This course is the first in a sequence with ApEc3002 (Managerial Economics). The primary audience for this course is undergraduate students in Agriculture and Food Business Management and Applied Economics.  
**Style:** 90% Lecture, 10% Discussion.  
**Grading:** 40% mid exam, 25% final exam, 15% quizzes, 20% problem solving.  
**Exam Format:** Short answer and problems

**APEC 3002 Applied Microeconomics: Managerial Economics**
4 credit(s); prereq [[3001 or ECON 3101], [OMS 2550 or STAT 3011]] or instr consent ;  
**Instructor:** King,Robert P  
**Description:** This course focuses on the application of microeconomic theory to managerial problems. Lectures, readings, problem sets, lab sessions, case studies, and discussions integrate theory and applications. Topics include: an introduction to regression analysis, demand analysis and demand function estimation, cost function estimation, resource allocation decisions, linear programming, market structure, pricing policy, risk analysis, and capital budgeting. This course is the second in a sequence that begins with ApEc 3001, “Consumers, Producers, and Markets”. The primary audience for this course is undergraduate students majoring in Agricultural Business Management, Agricultural Industries and Marketing and Applied Economics.  
**Style:** 40% Lecture, 10% Discussion, 50% Laboratory.  
**Grading:** 30% mid exam, 20% final exam, 10% quizzes, 30% laboratory evaluation, 10% problem solving.  
**Exam Format:** Problems, short answer, short essay

**APEC 3006 Applied Macroeconomics: Government and the Economy**

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
APEC 3007 Applied Macroeconomics: Policy, Trade, and Development
3 credit(s); prereq [1101 or Econ 1101], [1102 or Econ 1102]; 3001, 3006 recommended; Meets CLE req of International Perspect Theme;
Instructor: Runge, Carlisle Ford
Description: This is an undergraduate course in trade and economic development addressed in four main parts. Part I will lay out what we know about international trade and its role in the process of economic development: how trade has grown over recent centuries, the particular role of trade in agriculture, and concerns over globalization and the welfare of developing countries. Part II will consider what economists theorize about international trade—how we know about trade and development. We will consider traditional theories of trade and the roles of comparative advantage, resource endowments, and factor mobility as well as more contemporary aspects involving economies of scale and imperfect competition. Part III of the course will discuss the trade policy instruments and institutions that make trade and development happen: the private financial sector, the International Monetary Fund, World Bank, World Trade Organization, and World Intellectual Property Organization. Part IV will consider how the international movement of capital, technical change, and location affect trade and development.
Style: 80% Lecture, 20% Discussion.
Grading: 30% mid exam, 40% final exam, 30% reports/papers.
Exam Format: Multiple choice, short essay and numerical questions.

APEC 3451 Food and Agricultural Sales
3 credit(s); prereq Econ 1101; Instructor: Nefstead, Ward Elliot
Description: Professional selling of agricultural and food products. Building and refining sales abilities, identifying and qualifying prospects, delivering effective sales presentations and closing the sale, utilizing principles of market research including market segmentation methods. The class will involve explorations of careers in sales via guest speakers and other audiovisual aids. Students will develop and deliver a professional sales presentation.
Style: 80% Lecture, 20% Discussion.
Grading: 15% mid exam, 20% final exam, 50% special projects, 15% laboratory evaluation.
Exam Format: Essay.

APEC 3611 Environmental and Natural Resource Economics
3 credit(s); prereq Econ 1101; Meets CLE req of Environment Theme; Instructor: Houtz, Frances Reed
Description: Student may contact the instructor or department for information.

APEC 3821 Retail Center Management
3 credit(s); prereq [1101 or Econ 1101], [1251 or Acct 2050]; Instructor: Nefstead, Ward Elliot
Description: Management of garden centers, grocery stores and other retail units selling perishable agricultural products. This course will involve accounting and management aspects of related retail business. Part of the class with focus on e-commerce applications. Group exercises and management cases/simulations will be used as well as assigned projects off campus.
Style: 70% Lecture, 15% Discussion, 15% Laboratory.
Grading: 20% mid exam, 35% final exam, 20% special projects, 10% laboratory evaluation, 15% problem solving.
Exam Format: Multiple choice, essay, short answer.

APEC 3991 Independent Study in Applied Economics
1-4 credit(s); max credits 4, 1 repeat allowed; prereq instr consent; Instructor: STAFF
Description: Independent study and supervised reading and research on subjects and problems not covered in regularly offered courses. Coursework varies by instructor. No exams usually given.

APEC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq COAFES jr or sr, instr consent, complete internship contract available in COAFES Career Services before enrolling; UC only; Instructor: STAFF
Description: Professional experience in agribusiness firms or government agencies gained through supervised practical experience; evaluative reports and consultations with faculty advisors and employers.

APEC 4103 World Food Problems
3 credit(s); prereq jr or sr grad; Credit will not be granted if credit has been received for: AGRO 4103; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme; Instructor: Olson, Kent D
Description: This course provides a multi-disciplinary look at problems (and some of the possible solutions) affecting food production, storage, and utilization. Presentations and discussions introduce and discuss sometimes conflicting views on population control, use of technology, as well as the ethical and cultural values of people in various countries of the world. Emphasis is placed on the need for governments, international assistance agencies, international research and extension centers, as well as the private business sector to assist in solving these complex problems. Students can enroll in either Agro 4103 or ApEc 4103. Previous background in any of the disciplines is not required, but students should expect upper division and/or graduate level assignments.
Style: 33% Lecture, 33% Discussion.
APEC 4103 World Food Problems
3 credit(s); prereq jr or sr or grad; Credit will not be granted if credit has been received for: AGRO 4103; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme;
Instructor: Cardwell, Vernon Bruce
Description: This course provides a multi-disciplinary look at problems (and some of the possible solutions) affecting food production, storage, and utilization. Presentations and discussions introduce and discuss sometimes conflicting views on population control, use of technology, as well as the ethical and cultural values of people in various countries of the world. Emphasis is placed on the need for governments, international assistance agencies, international research and extension centers, as well as the private business sector to assist in solving these complex problems. Students can enroll in either Agro 4103 or ApEc 4103. Previous background in any of the disciplines is not required, but students should expect upper division and/or graduate level assignments.
Style: 60% reports/papers, 25% special projects, 15% class participation.
Grading: 60% reports/papers, 25% special projects, 15% class participation.

APEC 4501 Financial Modeling
3 credit(s); prereq [3001 or Econ 3101], [AnSc 2211 or OMS 1550 or Stat 3011], 60 cr] or instr consent; Credit will not be granted if credit has been received for: APEC 5481;
Instructor: Usset, Edward Charles
Description: Student may contact the instructor or department for information.
Style: 10% Laboratory, 90% Laboratory.
Grading: 60% reports/papers, 25% special projects, 15% class participation.

APEC 4481 Futures and Options Markets
3 credit(s); prereq [3001 or Econ 3101], [1251 or ACCT 3200 or 20501];
Instructor: Pederson, Glenn Darwin
Description: The objective of the course is to give students experience in designing and implementing solutions to financial and management problems with the use of the Microsoft Excel spreadsheet software. The course will emphasize the development of computer-based tools, rather than the use of existing tools or templates. In this way students will gain valuable practical experience in how to interpret and implement concepts and theories that are found in the fields of economics, finance and management. This is a full-semester, 3-credit course that incorporates a combination of short introductory lectures, cases, and computer labs. The course will meet twice per week in the computer lab. On some topics there may be invited speakers from the finance industry to introduce or discuss an application with the class.
Style: 10% Lecture, 90% Laboratory.
Grading: 10% in-class presentation, 90% laboratory evaluation.

APEC 4821W Business Economics and Strategy
3 credit(s); prereq 3002, [3501 or FINA 3001], MGMT 3001; Meets CLE req of Writing Intensive;
Instructor: Yeap, Clarissa A
Description: Strategic management for production, processing, wholesaling, retailing, and service. Establishing mission and goals; strategy formation, implementation, and control; business plans; case study analysis. Students completing the course will be able to: 1) Define the terms and concepts commonly used in the strategic management literature; 2) Describe the tasks included in strategic management; 3) Apply methods to identify strategic issues and to analyze strategic options for firms in the food system; 4) Understand how strategic plans are formulated and executed successfully in a variety of organizational circumstances; 5) Apply knowledge obtained in previous courses to agribusiness management problems; and 6) Develop and strengthen skills in teamwork, problem solving, speaking, and report writing. The target audience is primarily undergraduates in the agricultural and food business management major, although other students may benefit from this course as well.
Style: 40% Lecture, 25% Discussion, 35% Laboratory.
Grading: 30% reports/papers, 25% special projects, 45% other evaluation. mid-semester exams
Exam Format: Short answer, short essay, problems

APEC 5032 Economic Data Analysis for Managerial and Policy Decisions
3 credit(s); prereq [5031 or instr consent], familiarity with SAS;
Instructor: Carlin, Caroline S
Description: This course explores statistical and econometric methods for the analysis of large data sets to support managerial/policy decisions. Topics include: Methods for organizing, accessing, and ensuring the quality of data; Estimation techniques include panel data methods, limited dependent variable models, and time series analysis; Clarity of reporting and design of procedures for maintaining/updating data estimates. The intended audience is graduate students who have taken a masters level course in econometrics. Prerequisites: ApEc 5031 and familiarity with SAS or instructor consent.
Style: 50% Lecture, 25% Discussion, 25% Laboratory.

APEC 5152 Applied Macroeconomics: Income and Employment
3 credit(s); prereq 3001 or Math 1271 or Math 2243 or equiv or grad student or instr consent;
Instructor: Smith, Rodney B
Description: The course begins with a review of the fundamentals of micro economics of the consumer and firm. These fundamentals are used to develop, explain and apply a static general equilibrium trade model of an economy. Selected economy wide policies are discussed such as the basics of financial crises. The next section introduces the Solow model and growth accounting. The last section draws upon the static and the Solow model and growth accounting to develop a multi-sector growth model. This framework is used to explain savings, sources of growth, change in economy structure, and long-run equilibrium concepts.
Style: 80% Lecture, 20% Discussion.
Grading: 45% mid exam, 45% final exam, 10% problem solving.
Exam Format: Essay

APEC 5341 Public Finance
A-F only, 3 credit(s); prereq 3001 or Econ 3101 or PA 5021;
Instructor: Temple, Judy
Description: Student may contact the instructor or department for information.

APEC 5481 Futures and Options Markets
3 credit(s); prereq grad student; Credit will not be granted if credit has been received for: APEC 4481;
Instructor: Usset, Edward Charles
Description: Student may contact the instructor or department for information.

APEC 5711 U.S. Agricultural and Environmental Policy
3 credit(s); prereq 3001 or Econ 3101;
Instructor: Runge, Carlisle Ford
Description: This course provides an overview of global challenges to the survival and sustainability of the environment. The introductory first part of the course introduces the magnitude of these challenges in physical, ecological and human terms. The second part offers a set of economic tools relevant to analysis of these issues: the discount rate, property rights, basic game theory. The third part applies these concepts to a variety of international environmental problems.
Style: 70% Lecture, 30% Discussion.
Grading: 30% final exam, 40% other evaluation. exams, 30% assignments
Exam Format: Multiple choice and essay; take-home essay for final

APEC 5811 Cooperative Organization
3 credit(s); prereq 3001 or Econ 3101 or PA 5021 or instr consent;
Instructor: King, Robert P
Description: This course provides an overview of global challenges to the survival and sustainability of the environment. The introductory first part of the course introduces the magnitude of these challenges in physical, ecological and human terms. The second part offers a set of economic tools relevant to analysis of these issues: the discount rate, property rights, basic game theory. The third part applies these concepts to a variety of international environmental problems.
Style: 70% Lecture, 30% Discussion.
Grading: 30% final exam, 40% other evaluation. exams, 30% assignments
Exam Format: Multiple choice and essay; take-home essay for final

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
APEC 5991 Independent Study: Advanced Topics in Farm and Agribusiness Management
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instr consent;
Instructor: STAFF
Description: Special topics or individual work.
Style: Varies/individuals approach
Grading: 100% other evaluation. Varies

APEC 5991 Special Topics and Independent Study in Applied Economics
1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Special classes, independent study, and supervised reading and research on subjects not covered in regularly offered courses. Coursework varies by instructor. No exams usually given.

APEC 8203 Applied Welfare Economics and Public Policy
3 credit(s); prereq calculus, intermediate econ theory;
Instructor: R unge, Carlisle Ford
Description: Student may contact the instructor or department for information.

APEC 8205 Applied Game Theory
3 credit(s); prereq [8101, 8102, 8103, 8104] or [Econ 8001, Econ 8002, Econ 8003, 8004] or instr consent;
Instructor: Smith, Rodney B
Description: Student may contact the instructor or department for information.

APEC 8206 Dynamic Optimization: Applications in Economics and Management
A-F only, 0-3 credit(s), max credits 3, 1 repeat allowed; prereq 5151 or equiv or instr consent;
Instructor: Homans, Frances Reed
Description: Student may contact the instructor or department for information.

APEC 8212 Econometric Analysis II
4 credit(s); prereq 8211 or equiv or instr consent;
Instructor: Glewwe, Paul W
Description: Student may contact the instructor or department for information.

APEC 8403 Demand Analysis and Household Economics
A-F only, 2 credit(s); prereq [8211, 8212, Econ 5151] or [Econ 8001, Econ 8002] or [Econ 8101, Econ 8102] or [Econ 8201, Econ 8202, Econ 8203, Econ 8204] or instr consent;
Instructor: Glewwe, Paul W
Description: Student may contact the instructor or department for information.

APEC 8701 International Economic Development, Growth, and Trade
3 credit(s); prereq Econ 8002 or Econ 8102 or instr consent;
Instructor: Roe, Terry Lee
Description: Student may contact the instructor or department for information.

APEC 8801 Applied Production Theory
A-F only, 3 credit(s); prereq [Econ 8001, Econ 8002, Econ 8003] or [Econ 8101, Econ 8102, Econ 8103] or equiv or instr consent;
Instructor: Smith, Rodney B
Description: Student may contact the instructor or department for information.

APSC 8123 Research Ethics in the Plant and Environmental Sciences
S-N only, 0.5 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: PLPA 8123;
Instructor: Steffen son, Brian Joel
Description: Student may contact the instructor or department for information.

ARAB 1102 Beginning Arabic II
5 credit(s); prereq 1101 or equiv or instr consent; Credit will not be granted if credit has been received for: ARAB 4102;
Instructor: Khalek, Hisham A
Description: Arabic 1102 is the second in a sequence of courses aimed at reading, speaking, listening, and writing formal Arabic, also known as Modern Standard Arabic. The four language skills of reading, listening, writing, and speaking will be utilized and practiced. The class focuses on learning basic grammar and its applicability in daily conversations, reading elementary level Arabic, and writing simple sentences. Listening drills and exercises are also applied and practiced in class and in the language lab by listening and watching audio and video materials. The course also introduces students to the cultures of the Arabic-speaking people. The target audience includes undergraduate as well as graduate students. The text used is Al-Kitaab, Part One. By Brustad, Al-Batal, and Al-Tonsi, aided by audio and video cassettes.
Style: 40% Lecture, 40% Discussion. Culture.
Grading: 20% mid exam, 20% final exam, 30% quizzes, 10% class participation, 20% other evaluation. 20% homework.
Exam Format: Multiple choice and fill in the blank.

ARAB 1102 Beginning Arabic II
5 credit(s); prereq 1101 or equiv or instr consent; Credit will not be granted if credit has been received for: ARAB 4102;
Instructor: Ben Zahra, Saloua
Description: Student may contact the instructor or department for information.

ARAB 1102 Beginning Arabic II
5 credit(s); prereq 1101 or equiv or instr consent; Credit will not be granted if credit has been received for: ARAB 4102;
Instructor: Mohammed, Sidow Abdishariff
Description: Student may contact the instructor or department for information.

ARAB 1102 Beginning Arabic II
5 credit(s); prereq 1101 or equiv or instr consent; Credit will not be granted if credit has been received for: ARAB 4102;
Instructor: Chahine, Iman Chafik
Description: Student may contact the instructor or department for information.

ARAB 3102 Intermediate Arabic II
5 credit(s); prereq 3101 or instr consent;
Instructor: Ben Zahra, Saloua
Description: Student may contact the instructor or department for information.

ARAB 3102 Intermediate Arabic II
5 credit(s); prereq 3101 or instr consent;
Instructor: Chahine, Iman Chafik
Description: Arabic 3102 is a continuation of Arabic 3101. It is designed to further develop language proficiency in modern standard Arabic in the four language skills. In speaking, the focus is on the use of everyday expressions through discussion.
and presentations. In reading, the focus is on reading authentic materials from Arabic journals and magazines. Writing is emphasized especially through writing weekly journals and homework assignments. Listening exercises and drills are utilized in class by listening to audio tapes and watching video materials. The course also trains and prepares students to take the Graduation Proficiency Test which is a CLA requirement administered by the language center. In addition, students will further develop and enhance their knowledge of the culture of the Arab world. The target audience is undergraduate and graduate students.

**Style:** 30% Lecture, 50% Discussion. culture

**Grading:** 10% mid exam, 20% final exam, 20% reports/papers, 20% quizzes, 5% in-class presentation, 10% class participation, 10% other evaluation, homework assignments; 5% oral exam

**Exam Format:** Multiple choice, fill in the blank, and inference from reading short articles

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit(s)</th>
<th>Prerequisites</th>
<th>Instructor</th>
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<td>ARAB 3102</td>
<td>Intermediate Arabic II</td>
<td>5</td>
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<td>Beginning Arabic II</td>
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<td>ARAB 4122</td>
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<td>ARCH 3102</td>
<td>Architecture Studio II</td>
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<td>[1301 or 2301], arch major</td>
<td>STAFF</td>
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<tr>
<td>ARCH 3250</td>
<td>Design Workshop</td>
<td>1-6</td>
<td>A-F only, max credit(s)</td>
<td>Ibarra Sevilla, Benjamin</td>
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**Architecture 110 Rapson Hall**

**ARCH 1281 Design Fundamentals I**

A-F only, 4 credit(s); Instructor: Swackhamer, Marc T

**Description:** Student may contact the instructor or department for information.

**ARCH 2281 Design Fundamentals II**

A-F only, 4 credit(s); prerequisite [1301 or 2301], arch major; Instructor: Ibarra Sevilla, Benjamin

**Description:** Student may contact the instructor or department for information.

**ARCH 3250 Design Workshop**

A-F only, 1-6 credit(s), max credits 12, 12 repeats allowed; prerequisite Permission number (for first semester) or 3250 (for subsequent semesters); Instructor: STAFF

**Description:** Student may contact the instructor or department for information.

**ARCH 3300 Undergraduate Architecture Studio II**

A-F only, 6 credit(s); prerequisite [5281 or 4281], BS Arch major; Instructor: STAFF

**Description:** Student may contact the instructor or department for information.

**ARCH 3301 Drawing for Design in Architecture**

A-F only, 3 credit(s); prerequisite [1301 or LA 1301 or 2301], [Arch or BED major]; Instructor: STAFF

**Description:** This is a follow-up course for Arch/LA 1301. It is intended to explore ways of seeing and ways of exploring concepts behind objects, buildings, and places. These explorations will include: historical and theoretical aspects of depicting architecture that may be found in paintings and architectural drawings; concepts of structure and order of form; conventional and experimental strategies for depicting space, light, and "time" (i.e. projection systems, multiple, and sequential drawings); pencil, pastels, and ink drawing techniques and skills. Though nothing will be "designed" in this course, the educational objective of this sequence of exercises is to introduce issues and develop skills which are essential for a design studio. Note: Requirements may vary depending on the instructor who teaches a particular section.

**Style:** 10% Lecture, 20% Discussion, drawing exercises

**Grading:** 25% class participation, 50% final portfolio; 25% final assignment

**Exam Format:** review of drawings

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ARCH 3351  AutoCAD I
3 credit(s); prereq Arch major or BED major or instr consent
Credit will not be granted if credit has been received for:
ARCH 5351;
Instructor: Dozier, James
Description: Basic concepts, tools, and techniques of computer-aided drawing with current AutoCAD release. Strategies and techniques for producing dimensioned and annotated drawings suitable for plotting, and an introduction to 3-D drawing capabilities. Use of dimension variables, attributes, blocks, and symbols.

ARCH 3351  AutoCAD I
3 credit(s); prereq Arch major or BED major or instr consent
Credit will not be granted if credit has been received for:
ARCH 5351;
Instructor: Anderson, Kristine
Description: Basic concepts, tools, and techniques of computer-aided drawing with current AutoCAD Release. Strategies and techniques for producing dimensioned and annotated drawings suitable for plotting, and an introduction to 3-D drawing capabilities. Use of dimension variables, attributes, blocks, and symbols.

ARCH 3412 Architectural History Since 1750
A-F only, 3 credit(s); prereq Soph or above; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Iannacone, Rachel
Description: History and theories of architecture and related landscapes and urban forms since 1750.

ARCH 3412H Honors: Architectural History Since 1750
A-F only, 3 credit(s); prereq Soph, honors; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Iannacone, Rachel
Description: Student may contact the instructor or department for information.

ARCH 3611 Design in the Digital Age
A-F only, 3 credit(s);
Instructor: Anderson, Lee Bruce
Description: Student may contact the instructor or department for information.

ARCH 4150 Topics in Architecture: Meaning and Use of Public Spaces
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent;
Instructor: Iannacone, Rachel
Description: Student may contact the instructor or department for information.

ARCH 4150 Topics in Architecture: Intro to Rhino: Modeling, Scripting, Fabrication
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent;
Instructor: Newton, David
Description: Student may contact the instructor or department for information.

ARCH 4150 Topics in Architecture: Introduction to Topics in Heritage Preservation
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent;
Instructor: Donofrio, Gregory
Description: Student may contact the instructor or department for information.

ARCH 4284 Undergraduate Architecture Studio IV
A-F only, 6 credit(s); prereq 4283, BS Arch major;
Instructor: Jara, Cynthia
Description: Student may contact the instructor or department for information.

ARCH 4361  3-D Computer Architectural Modeling and Design
A-F only, 3 credit(s); prereq 3351, Arch major; Credit will not be granted if credit has been received for: ARCH 5361;
Instructor: Dozier, James
Description: This class explores the use of 3-D computer modeling as a tool for representation in both abstract and realistic ways. Students will gain a good basic working knowledge of computer modeling software through assignments that include the creation and arrangement of objects, setting up lighting, developing surface materials, and creating still renderings and animations. The class also explores ways in which computer visualization can be used throughout the design process for: design exploration, feedback during the development of design ideas, and realistic representation of fully formed designs.

ARCH 4382 Computer-Aided Architectural Design
A-F only, 3 credit(s); prereq 3381 or 5381;
Instructor: Anderson, Lee Bruce
Description: Student may contact the instructor or department for information.

ARCH 4423 Gothic Architecture
A-F only, 3 credit(s); prereq 3411 or instr consent; Credit will not be granted if credit has been received for: ARCH 5423;
Instructor: Satkowski, Leon
Description: Student may contact the instructor or department for information.

ARCH 4461 North American Indian Architecture
A-F only, 3 credit(s); prereq Arch 3412, Arch or Amln major; Credit will not be granted if credit has been received for: ARCH 5461;
Instructor: Tollifson, Lee E
Description: Student may contact the instructor or department for information.

ARCH 4521 Environmental Technology I
A-F only, 3 credit(s); prereq BS Arch major;
Instructor: Mosiman, Garrett Evan
Description: Student may contact the instructor or department for information.

ARCH 4552 Integrated Design Processes
A-F only, 3 credit(s);
Instructor: STAFF
Description: The course will provide a comprehensive understanding of the multiple engineered systems (structural, electrical, mechanical, plumbing, fire safety, lighting, etc.) that require design and integration in a contemporary architectural project. Students will examine the entire project team makeup -- design professionals, technical consultants, and constructors -- their roles and responsibilities, the various project delivery methods and how they impact project cost, quality and scheduling, as well as the professional's responsibility to clients and community in terms of sustainability, health, safety and welfare. The course will provide a comprehensive understanding of the multiple engineered systems (structural, electrical, mechanical, plumbing, fire safety, lighting, etc.) that require design and integration in a contemporary architectural project. Students will examine the entire project team makeup -- design professionals, technical consultants, and constructors -- their roles and responsibilities, the various project delivery methods and how they impact project cost, quality and scheduling, as well as the professional's responsibility to clients and community in terms of sustainability, health, safety and welfare.

ARCH 4561 Architecture and Ecology
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ARCH 5501;
Instructor: Lutz, James Martin
Description: Student may contact the instructor or department for information.

ARCH 4672 Historic Building Conservation

ARCH 4750 Topics in Urban Design: Territorial City
A-F only, 3 credit(s); prerequisite Undergrad arch major or instr consent;
Instructor: Conway, William F
Description: Student may contact the instructor or department for information.

ARCH 5110 Architecture as Catalyst
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prerequisite M.Arch;
Instructor: Robinson PhD, Julia Williams
Description: Student may contact the instructor or department for information.

ARCH 5110 Architecture as Catalyst
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prerequisite M.Arch;
Instructor: Ibarra Sevilla, Benjamin
Description: Student may contact the instructor or department for information.

ARCH 5110 Architecture as Catalyst
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prerequisite M.Arch;
Instructor: Swackhamer, Marc T
Description: Student may contact the instructor or department for information.

ARCH 5110 Architecture as Catalyst
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prerequisite M.Arch;
Instructor: Brownell, Blaine
Description: Student may contact the instructor or department for information.

ARCH 5241 Principles of Design Programming
A-F only, 4 credit(s); prerequisite [8251, M.Arch or MS Arch] major or instr consent;
Instructor: Robinson PhD, Julia Williams
Description: Student may contact the instructor or department for information.

ARCH 5361 3-D Computer Architectural Modeling and Design
A-F only, 3 credit(s); prerequisite M Arch major; credit will not be granted if credit has been received for: ARCH 4361;
Instructor: Dozier, James
Description: Student may contact the instructor or department for information.

ARCH 5361 3-D Computer Architectural Modeling and Design
A-F only, 3 credit(s); prerequisite M Arch major; credit will not be granted if credit has been received for: ARCH 4361;
Instructor: Dozier, James
Description: Student may contact the instructor or department for information.

ARCH 5382 Computer Aided Architectural Design
A-F only, 3 credit(s); prerequisite 5381 or arch grad major or instr consent;
Instructor: Anderson, Lee Bruce
Description: Student may contact the instructor or department for information.

ARCH 5410 Topics in Architectural History: Meaning and Use of Public Spaces
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prerequisite M Arch major or instr consent;
Instructor: Iannacone, Rachel
Description: Student may contact the instructor or department for information.

ARCH 5423 Gothic Architecture
A-F only, 3 credit(s); prerequisite M Arch major or instr consent; Credit will not be granted if credit has been received for: ARCH 4422;
Instructor: Satkowski, Leon
Description: Student may contact the instructor or department for information.

ARCH 5450 Topics in Architectural Theory: Le Corbusier
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prerequisite Arch major or M Arch major or instr consent;
Instructor: Jara, Cynthia
Description: Student may contact the instructor or department for information.

ARCH 5450 Topics in Architectural Theory: Crusader
Architecture in the Eastern Mediterranean
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prerequisite Arch major or M Arch major or instr consent;
Instructor: Bakirtzis, Nikolas
Description: Student may contact the instructor or department for information.

ARCH 5452 Architecture: Design, Form, Order, and Meaning
A-F only, 4 credit(s); prerequisite M Arch major or instr consent;
Instructor: Dittmar, Gunter A
Description: Student may contact the instructor or department for information.

ARCH 5516 Technology Two: Luminous and Thermal Design
A-F only, 6 credit(s); prerequisite M Arch;
Instructor: Roë, Sharon Louise
Description: Student may contact the instructor or department for information.

ARCH 5527 Material Investigations: Stone and Water
A-F only, 4 credit(s); prerequisite M Arch or M.S.;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

ARCH 5550 Topics in Technology: Sustainable Infrastructure
A-F only, 4 credit(s), max credits 12, 3 repeats allowed; prerequisite M Arch major;
Instructor: Weber Jr, William G
Description: Student may contact the instructor or department for information.

ARCH 5550 Topics in Technology: Built Design
A-F only, 4 credit(s), max credits 12, 3 repeats allowed; prerequisite M Arch major;
Instructor: Ibarra Sevilla, Benjamin
Description: Student may contact the instructor or department for information.

ARCH 5550 Topics in Technology: Design in Education
A-F only, 4 credit(s), max credits 12, 3 repeats allowed; prerequisite M Arch major;
Instructor: Cimazzi, John Joseph
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor(s)</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 5550</td>
<td>Topics in Technology: Algorithmic Design</td>
<td>Newton, David</td>
<td>A-F only, 4 credit(s), max credits 12, 3 repeats allowed;</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>ARCH 5561</td>
<td>Building Production Processes</td>
<td>Weeks, J Stephen</td>
<td>3 credit(s); prereq M Arch major or instr consent</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>ARCH 5561</td>
<td>Design in the Digital Age</td>
<td>Staff</td>
<td>A-F only, 3 credit(s); prereq Grad student or upper level</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>ARCH 5560</td>
<td>Topics in Architectural Practice: Building Stories:</td>
<td>Cheng, Renee</td>
<td>3 credit(s), max credits 8; prereq 5621, Arch major or</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>ARCH 5560</td>
<td>Emergent Design</td>
<td>Newton, David</td>
<td>4 credit(s), max credits 8; prereq 5621, Arch major or</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Callan, Robert</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>Description: This course is designed to provide an understanding of historic building materials</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Mack, Robert</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>and the recording of historic properties. Topics include an examination of the historical</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Newton, David</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>building materials frequently encountered in historic preservation. Characteristics of historic</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Grover, Todd</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>building materials and techniques for their stabilization and rehabilitation are discussed.</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Ross, John</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>Discussions also include structural systems and building repair, building pathology, introduction</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Pechaty, Victor</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>of new environmental systems in historic buildings, and conservation of historic interiors.</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>San Martin, Ignacio</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>Sessions concerning recording focus on the use of small- and large-format photography,</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Robinson, Julia Williams</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>preparation of measured drawings, and physical investigations of existing structures. Material</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Conway, William</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>is presented through illustrated lectures, guest lecturers, and field trips, and &quot;hands-on&quot;</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Weeks, J Stephen</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>Style: 50% Lecture, 15% Discussion, 35% Laboratory, Grading: 35% reports/papers, 35% special</td>
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<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Robinson, Julia Williams</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>projects, 20% quizzes, 10% problem solving. Exam Format: Essay.</td>
</tr>
<tr>
<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Weeks, J Stephen</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<td>ARCH 5672</td>
<td>Historic Building Conservation</td>
<td>Weeks, J Stephen</td>
<td>3 credit(s); prereq 3412, 5671 or instr consent</td>
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</tbody>
</table>

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ARTS 1001 Concepts in Visual Art  
4 credit(s); Meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: Concepts of visual art-making in contemporary and historical contexts. The media, environment, and concerns of the practicing artist. Creative process, visual expression, criteria. Aesthetic foundation for beginning studio courses. Visiting artists, museum and gallery visits, creative presentations. Required of all art majors.

ARTS 1101 Drawing  
4 credit(s); Meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media. Work from still life, nature, the life model, and imagination.

ARTS 1101 Drawing  
4 credit(s); Meets CLE req of Other Humanities Core;  
Instructor: Kuhr,Alexis  
Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media. Work from still life, nature, the life model, and imagination.

ARTS 1102 Painting  
4 credit(s); prereq 1101 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.; Meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: Introduction to painting with attention to understanding and applying the fundamental principles of spatial organization and color interaction.

ARTS 1301 Sculpture  
4 credit(s); Meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: An introduction to sculptural practice examining materials, methods, concepts, and history with emphasis on the correlation between concepts and materials. Work in clay, plaster, metal, and wood.

ARTS 1501 Printmaking: Intaglio and Lithography  
4 credit(s); Meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: 1501-005 Introduction to Printmaking: Relief and Intaglio. This is an introductory course that explores the concepts and techniques of intaglio processes and relief approaches of woodcut and linoleum as fine art. Students acquire skill and understanding into the aesthetics of of the print, the role of the multiple and the nature of graphics as it relates to personal expression. Familiarization to strategies and concepts of printmaking through historical and contemporary usage is addressed. Emphasis on understanding the interrelationship of process, materials and ideas. This course is designed for undergraduate students across disciplines. It introduces techniques artists employ in the development of visual statements. Hands-on involvement in the production of artwork. Style: 40% Lecture, 30% Discussion, 30% Laboratory. Grading: 15% mid exam, 10% reports/papers, 25% class participation, 50% other evaluation. creative engagement Exchange Format: short answer, multiple choice

ARTS 1502 Printmaking: Relief, Screen, and Digital  
4 credit(s);  
Instructor: STAFF  
Description: Introduction to techniques of relief (linoleum and woodcut), screenprint and digital printmaking. Historical approaches and use through contemporary materials, concepts and practices. Emphasis on the interrelationship of process, materials and ideas.
proposed. These will be concept based with a focus on site and ecological responsibility. The purpose is that they guide an investigation of representation and aesthetic discourse and help expand both the content and context of your present work. Our approach will be mixed media, utilizing the digital technology available as art making tools and as an important component will be used to expand upon "handmade" images that are already part of your repertoire in past works. To "draw" on digital works with other media using the skill and expression of an artist (painters, sculptors, etc.), this would be to explore the variations of what if? that are so easily afforded by digital techniques? Our discussion in critique will focus on developing an "open set" of concerns, examining the means of representation (WHY and HOW did you do that?) as well as the meaning, interpretation and ethics of images (How do we RESPOND?). The emphasis will be on examining substance as well as the production of images. Your output should be appropriate to the idea and the images that result: from posting your work digitally to printing onto a variety of surfaces (rag paper, poly films, vinyl, transparent plastics, canvas, fabric). There will be six class projects and a final project. Each project will be reviewed, critiqued and graded. These projects are 70% of your grade. Classroom participation 15%. Attendance 15%.

**ARTS 3102 Intermediate Painting**

4 credit(s); prereq 1001, 1101, 1102 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Lyon, Joyce

**Description:** Student may contact the instructor or department for information.

**ARTS 3102 Intermediate Painting**

4 credit(s); prereq 1001, 1101, 1102 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Connaughty, Sean P

**Description:** Student may contact the instructor or department for information.

**ARTS 3105 Dimensional Painting**

4 credit(s); prereq 1001, 1101, 1102 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Feinberg, David L

**Description:** Student may contact the instructor or department for information.

**ARTS 3112 Life Drawing II**

4 credit(s); prereq 3111 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Bussey, Margaret Barton

**Description:** Student may contact the instructor or department for information.

**ARTS 3302 Sculpture: Spatial Problems**

4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Rose, Thomas Albert

**Description:** The intention of this class is to introduce students to self directed project work and to focus on individual project development. The general topic is how spatial conditions may be used to determine the structures, media, and methods employed by each student. Sculpture is a spatial art, and like architecture, develops connections to place. Each student's work is both a condition of space and an accommodation to space, resulting in the creation of place. Students are encouraged to work in media outside of their experience and to explore new themes in their work. The structure of the class is organized around discussion and critique of work developed individually and in studio. The format is open and casual with students able to work independently. No specific material or media is stressed. Spring of 2009 examine game theory as it applies to the question of choice. Different choices produce different outcomes and as games reflect everyday experience they simulate the process of art making. Students will work from an established game platform, e.g., "Spore" and work toward the development of a virtual space using sound and personal imaging. This is not a gaming class or a computer modeling course, rather it uses these strategies as the tools for the creation of virtual spaces.

**ARTS 3303 Sculpture: Metalcasting**

4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** STAFF

**Description:** Make cast metal sculpture in the new state-of-the-art University of Minnesota Sculpture Foundry in the new Regis Center for Art. Metalcasting of Sculpture is an intensive course where you will be asked to think creatively with cast aluminum, bronze, and iron. Prerequisites: ArtS 1301 Basic Sculpture and ArtS 1101W Concepts in Visual Arts. Required Text: "Hot Metal--A Complete Guide to the Metalcasting of Sculpture," Potratz. Available at bookstore or on reserve in Wilson Library. Slide lectures, demonstrations, critiques, discussion, and studio work. Course fee covers most materials, but you may need to spend more depending on the size of your sculpture. Safety equipment required. Three assignments resulting in three cast metal sculptures, quiz on text, 2-3 page paper, visiting artists, mid-term and final critiques. Sand molding, ceramic shell molding, and other molding processes used to make creative work. Required lab for Fall evening course. Spring course requires participation in the Annual Minnesota Iron Pour. Expect to spend at least 6 hours per week outside of class working on your sculpture.

**Style:** 5% Lecture, 10% Discussion. Demonstrations, critique, studio work in the foundry

**Grading:** 20% reports/papers, 10% quizzes, 60% other evaluation. Creative work in Cast Metal

**Exam Format:** Individual and group critique

**ARTS 3303 Sculpture: Metalcasting**

4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Potratz, Wayne E

**Description:** Make cast metal sculpture in the new state-of-the-art University of Minnesota Sculpture Foundry in the new Regis Center for Art. Metalcasting of Sculpture is an intensive course where you will be asked to think creatively with cast aluminum, bronze, and iron. Prerequisites: ArtS 1301 Basic Sculpture and ArtS 1101W Concepts in Visual Arts. Required Text: "Hot Metal--A Complete Guide to the Metalcasting of Sculpture," Potratz. Available at bookstore or on reserve in Wilson Library. Slide lectures, demonstrations, critiques, discussion, and studio work. Course fee covers most materials, but you may need to spend more depending on the size of your sculpture. Safety equipment required. Three assignments resulting in three cast metal sculptures, quiz on text, 2-3 page paper, visiting artists, mid-term and final critiques. Sand molding, ceramic shell molding, and other molding processes used to make creative work. Required lab for Fall evening course; see schedule for the day and time. Spring course requires participation in the Annual Minnesota Iron Pour. Expect to spend at least 6 hours per week outside of class working on your sculpture.

**Style:** 5% Lecture, 10% Discussion, 85% Studio. Demonstrations, critique, studio work in the foundry

**Grading:** 20% reports/papers, 10% quizzes, 60% other evaluation. Creative work in Cast Metal

**Exam Format:** Individual and Group Critique

**ARTS 3304 Sculpture: Carving and Construction**

4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.;

**Instructor:** Linden, Paul
ARTS 3305 Sculpture: Kinetics
4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.; Instructor: Larson, Chris
Description: Student may contact the instructor or department for information.

ARTS 3306 Performance Art and Installation
4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.; Instructor: Lukkas, Lynn Tjernman
Description: Arts Performance Art and Installation: Spring 2009 this course will collaborate with performance/theater artist David Gordon in his COLA course and new work, "Un-Civil Wars" to be presented at the Walker Art Center in March 2009; and with Ain Gordon's new work "The Storm Show." Students will investigate "Live Art" practices and create original works that integrate performance, installation, media arts and socially engaged art practices. Presentations and screenings of hybrid art forms introduced by Dada movement in 1920s, continued by Fluxus movement in 1950s, to today's contemporary Live Art and Performance artists will be included.

ARTS 3402 Artists' Books
4 credit(s); prereq 1001, one visual art course Note: Students without stated prerequisites will not be allowed to continue in this course.; Instructor: Rathermel, Jeff A
Description: Student may contact the instructor or department for information.

ARTS 3403 Women's Images and Images of Women
3 credit(s); prereq 1001 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.; Credit will not be granted if credit has been received for: ARTS 5403; Meets CLE req of Cultural Diversity Theme; Instructor: Kitzhaber, Jeannine
Description: Student may contact the instructor or department for information.

ARTS 3420 Visiting Artists Program
S-N only, 1 credit(s), max credits 2; Instructor: Freeman, Travis Timothy
Description: Following attendance of the three Visiting Artist Lectures held on Thursday evenings, students respond in a short one page essay to a question given by instructor. Questions and essays are delivered electronically through Web CT. Fall 2008 Visiting Artists include, Mark Beasley, Enrique Chagoya, and Allison Smith.
Style: 100% Guest Speakers.

ARTS 3444 Major Project
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent ; Instructor: STAFF
Description: The major project in Art is intended to be a "capstone" experience for the senior majoring in Art. It is a required course for graduation with a major in art. All BA students majoring in art will participate in a group exhibition in the Regis Center Public Spaces scheduled near the end of the graduating semester. The student can include work in any format, from previous or current courses or independent studies, that they consider representative of their best work. The minimum experience (1 credit) involves participation in a series of meetings with the DUS at pre-announced times. At these meetings, students develop professional skills (preparation of resume, artist's statement, exhibition protocols, etc). Students also attend a variety of departmental presentations, visiting artist lectures, exhibitions. A second option is for students who want to self-design a project (1-3 credits) with an individual, regular faculty member. Through the self-designed project, students are encouraged to clarify their own visual concepts. For the individually designed experience, students must complete the Major Project Proposal Contract available from the Art Advising Office, E223 Regis Center.

ARTS 3496 Internship in the Arts
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq BFA Art major, instr consent; Instructor: STAFF
Description: The internship requirement for students in the BFA Art program may be satisfied through field work at local, regional or national arts organizations or with professional artists. BFA candidates gain experience in activities or in the administration of art or art-based organizations. Student and host organization or artists file a mutual contract approved by the student's BFA Faculty Mentor prior to registration; student and host provide written evaluation of the internship experience at the end of the specified experience.

ARTS 3499 Internship at Katherine E. Nash Gallery
S-N only, 3 credit(s); prereq 1001, instr consent; Instructor: Shank, Nicholas Bowers
Description: ARTS 3499 INTERNSHIP AT THE KATHERINE E. NASH GALLERY Fall Semester, Spring Semester & Summer Session If you are interested in registering for the internship program, please see Nick Shank in Room 112. You can also contact him at (612) 624-6518; e-mail at shank001@umn.edu The internship at the Nash Gallery is limited to 12 undergraduate students. Grading basis/credits: S-N only, 3 credit(s). Prerequisites: 1001. Instructor consent This GREAT ?hands-on? internship experience involves: 1) the installation and de-installation of exhibitions in the Nash Gallery 2) experience working with local, national and international artists/curators 3) an introduction to gallery practices 4) learning how to present your work 5) staffing Nash Gallery receptions Please note: Because most of the work is done on weekends, the internship doesn?t interfere with other classes. To enroll in the internship program, you must have an interview with Nick Shank at the conclusion of which you will be given a permission number. You must use this permission number when you register for the course.

ARTS 3505 Papermaking as an Art Form
4 credit(s); prereq 1001, 1505 Note: Students without stated prerequisites will not be allowed to continue in this course.; Instructor: donovan, david c
Description: Introduction to approaches, forms, and aesthetic possibilities of paper as an expressive medium. Studio work in both Eastern and Western traditions and sculptural applications.

ARTS 3510 Intermediate Printmaking: Traditional and Contemporary Approaches
4 credit(s), max credits 8; prereq 1001, [1501 or 1502]; Instructor: Marty, Paula Marie
Description: Student may contact the instructor or department for information.

ARTS 3510 Intermediate Printmaking: Traditional and Contemporary Approaches
4 credit(s), max credits 8; prereq 1001, [1501 or 1502]; Instructor: Schmid, Jenny
Description: This class offers students the opportunity to develop their work by exploring advanced techniques including photo-lithography, mono-printing, polyester plates and the use of color in multiple layers. Students will be introduced to contemporary printmakers and conceptual issues through several slide lectures: Intensive critiques will also be integral to the functioning of this class. Students are expected to be self-motivated and have a committed studio practice in order to...
ARTS 3603 Experimental Video
4 credit(s); prereq 1001W, 1601 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lukkas,Lynn Tjerman
Description: Experimental Video and Advanced Experimental Video: Spring semester 2009 this course will focus on experimental forms of video art, including experimental non-narrative video, video installation, and video combined with live art works. Students will have the opportunity to explore the aesthetic and conceptual intersections between film and art while producing original works that explore contemporary digital technologies alongside super 8 filmmaking. Presentations and screenings of experimental film and video art work from 1900 to the present will be included.

ARTS 3604 Animation
4 credit(s); prereq 1001W, 1601 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Paul,Stephen
Description: Student may contact the instructor or department for information.

ARTS 3605 Sound Art
4 credit(s); prereq 1001W, 1601;
Instructor: Willow,Diane
Description: Student may contact the instructor or department for information.

ARTS 3701 Photography: Silver Processes
4 credit(s); prereq 1001, 1701 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Henkel,James V
Description: This course is designed to involve the student in issues relating to photography as a descriptive art making tool. Students will be expected to apply testing of materials and darkroom techniques to a variety of assignments which are designed to explore thematic topics which are traditional to photographic practice in a contemporary and innovative way. A large percentage of this class involves the mastery of craft and skill based approaches to traditional black and white photographic materials. A historical overview as well as contemporary approaches will be presented. A 35 mm single lens reflex or larger format film style film camera is necessary for this class.

ARTS 3702 Photography: The Extended Image
4 credit(s); prereq 1001, 1701 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Milikan,Jeffrey B
Description: Student may contact the instructor or department for information.

ARTS 3703 Photography: Digital Imaging
4 credit(s); prereq 1001, 1701 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Newhall,Justin Robb
Description: Student may contact the instructor or department for information.

ARTS 3703 Photography: Digital Imaging
4 credit(s); prereq 1001, 1701 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Marchetti,Anthony Paul
Description: Student may contact the instructor or department for information.

ARTS 3801 Ceramics: Wheel Throwing
4 credit(s), max credits 8; prereq 1001, 1801 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Hargens,Ursula Snow
Description: Student may contact the instructor or department for information.

ARTS 3802 Ceramics: Handbuilding
4 credit(s), max credits 8; prereq 1001, 1801 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Yamada,Tetsuya
Description: Student may contact the instructor or department for information.

ARTS 5105 Advanced Dimensional Painting
4 credit(s); prereq 3105 or instr consent;
Instructor: Feinberg,David L
Description: Student may contact the instructor or department for information.

ARTS 5110 Advanced Drawing
4 credit(s), max credits 12, 4 repeats allowed; prereq 3101 or 3111 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lyon,Joyce
Description: Student may contact the instructor or department for information.

ARTS 5110 Advanced Drawing
4 credit(s), max credits 12, 4 repeats allowed; prereq 3101 or 3111 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Katsialias,Diane
Description: Drawing for sites using digital media as an essential tool. In this course, we will explore the possibilities of digital technology as an essential tool and component in contemporary drawing. Frameworks for projects will be proposed. These will be concept based with a focus on site and ecological responsibility. The purpose is that they guide an investigation of representation and aesthetic discourse and help expand both the content and context of your present work. Our approach will be mixed media, utilizing the digital technology available as art making tools and as an important component will be used to expand upon “handmade” images that are already part of your repertoire in past works. ? To ‘draw’ on digital works with other media using the skill and expression of an artist (painters, sculptors, etc. etc.) ? To explore the variations of ‘what if?’ that are so easily afforded by digital techniques? Our discussion in critique will focus on developing an “open set” of concerns, examining the means of representation (WHY and HOW DID you do that?) as well as the meaning, interpretation and ethics of images (How do we RESPOND?). The emphasis will be on examining substance as well as the production of images. Your output should be appropriate to the idea and the images that result: from posting your work digitally to printing onto a variety of surfaces (rag paper, poly films, vinyl, transparent plastics, canvas, fabric). There will be six class projects and a final project. Each project will be reviewed, critiqued and graded. These projects are 70% of your grade. Classroom participation 15%. Attendance 15%.
Style: 5% Lecture, 25% Discussion, studio/classroom work Grading: 15% in-class presentation, 15% class participation.

ARTS 5110 Advanced Drawing
4 credit(s), max credits 12, 4 repeats allowed; prereq 3101 or 3111 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Grafelman,Glenn Allen
Description: Student may contact the instructor or department for information.

ARTS 5120 Advanced Painting
4 credit(s), max credits 12, 4 repeats allowed; prereq 3102 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Baeuemler,Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 5120 Advanced Painting
4 credit(s), max credits 12, 4 repeats allowed; prereq 3102 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Yamada,Tetsuya
Description: Student may contact the instructor or department for information.
ARTS 5130 Advanced Painting: Watercolor
4 credit(s), max credits 12, 4 repeats allowed; prereq 3102 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Oestaphuk, Mark
Description: Student may contact the instructor or department for information.

ARTS 5320 Advanced Sculpture: Spatial Problems
4 credit(s), max credits 12, 4 repeats allowed; prereq 3302 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Rose, Thomas Albert
Description: The intention of this class is to introduce students to self directed project work and to focus on individual project development. The general topic is how spatial conditions may be used to determine the structures, media, and methods employed by each student. Sculpture is a spatial art, and like architecture, develops connections to place. Each student's work is both a condition of space and an accommodation to space, resulting in the creation of place. Students are encouraged to work in media outside of their experience and to explore new themes in their work. The structure of the class is organized around discussion and critique of work developed individually and in studio. The format is open and casual with students able to work independently. No specific material or media is stressed. Spring of 2009 examine game theory as it applies to the question of choice. Different choices produce different outcomes and as games reflect everyday experience they simulate the process of art making. Students will work from an established game platform, e.g. "Spore" and work toward the development of a virtual space using sound and personal imaging. This is not a gaming class or a computer modeling course, rather it uses these strategies as the tools for the creation of virtual spaces.

ARTS 5330 Advanced Sculpture: Metal Casting
4 credit(s), max credits 12, 4 repeats allowed; prereq 3303 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Potratz, Wayne E
Description: Metal casting of Sculpture is a course where you are asked to think imaginatively and work creatively with a wide variety of materials. The typical student makes three sculptures, one cast in aluminum, one cast in bronze, and one iron casting. Mold materials include resin bonded sand, ceramic shell, green sand, or other sand molding systems. The course is conducted in the University of Minnesota Sculpture Foundry, one of the finest metalcasting facilities at the university level in the nation; the foundry features a 75 KW Induction furnace. Each semester, the coke-fired cupolette is used for an iron pour, which includes guest artists from around the country. This is an advanced sculpture course with an emphasis on the development of personal imagery in sculpture. At the 5000 level, the course operates more like a tutorial; you should be well on the way to setting your own goals for your work, both conceptually and technically. Thus the assignments do not dictate subject matter. Be prepared to articulate what you want to accomplish within the semester. This fall semester, the course will also explore the Tatara, an ancient Japanese process for making steel directly from Iron Ore. Students will have the opportunity to assist in the building and firing of a clay tatar during the month of October. Participants will receive a portion of the steel made
Style: 5% Lecture, 5% Discussion, 10% Demonstration, 75% Studio, 5% Guest Speakers. This is NOT a topics course!!
Grading: 10% reports/papers, 10% attendance, 5% class participation, 75% other evaluation. Paper is related to the readings and your own work in sculpture.
Exam Format: Final critique of sculpture produced

ARTS 5340 Advanced Sculpture: Carving and Construction
4 credit(s), max credits 12, 4 repeats allowed; prereq 3304 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Linden, Paul
Description: Student may contact the instructor or department for information.

ARTS 5350 Advanced Sculpture: Kinetics
4 credit(s), max credits 12, 4 repeats allowed; prereq 3305 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lukkas, Lynn Tjerman
Description: Student may contact the instructor or department for information.

ARTS 5360 Advanced Performance Art and Installation
4 credit(s), max credits 12, 4 repeats allowed; prereq 3306 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Katsiafacas, Diane
Description: In this seminar we will consider and explore some of the ephemeral and practical aspects of being an artist today. Weekly we will discuss topics from an inventory of "big issues" in art today. How do these affect us? What role do they have in our creative process? These will be correlated with meetings/discussions with members of the local Arts Community, sometimes in field trips to their environments; with the Visiting Artist program; correlative readings/bi-weekly exercises; group discussions/critiques; final presentations. One of the objects is to develop and practice the use of coherent, constructive, critical language for considering visual art. A starting point for this dialogue will be to consider cognitive and generative processes for the making of art and how might these be expanded. What might criteria be for evaluation of an art focusing on content which is subjective? Does this differ if the content is objective or "formal"? Every week you will be responsible for readings. Based on the readings, you will prepare a 3 minute presentation which addresses the topic/reading under consideration. Your format/medium should be appropriate to the issue and to yourself. This could be both written and visual text. View these "synopses presentations" as experimental exercises. We will attempt in the discussion to develop criteria for constructive assessment of your efforts.

ARTS 5402 Artists' Books
4 credit(s); prereq 3402 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Rathermel, Jeff A
Description: Student may contact the instructor or department for information.

ARTS 5403 Women's Images and Images of Women
3 credit(s); prereq 1001 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Kitzhaber, Jeannine
Description: Student may contact the instructor or department for information.

ARTS 5404 Seminar: Concepts and Practices in Art
3 credit(s), max credits 6; prereq BFA candidate or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Katsiafacas, Diane
Description: In this seminar we will consider and explore some of the ephemeral and practical aspects of being an artist today. Weekly we will discuss topics from an inventory of "big issues" in art today. How do these affect us? What role do they have in our creative process? These will be correlated with meetings/discussions with members of the local Arts Community, sometimes in field trips to their environments; with the Visiting Artist program; correlative readings/bi-weekly exercises; group discussions/critiques; final presentations. One of the objects is to develop and practice the use of coherent, constructive, critical language for considering visual art. A starting point for this dialogue will be to consider cognitive and generative processes for the making of art and how might these be expanded. What might criteria be for evaluation of an art focusing on content which is subjective? Does this differ if the content is objective or "formal"? Every week you will be responsible for readings. Based on the readings, you will prepare a 3 minute presentation which addresses the topic/reading under consideration. Your format/medium should be appropriate to the issue and to yourself. This could be both written and visual text. View these "synopses presentations" as experimental exercises. We will attempt in the discussion to develop criteria for constructive assessment of your efforts.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Lyon, Joyce
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Lukas, Lynn Tjerman
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Larson, Chris
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Baeumler, Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Feinberg, David L
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Morgan, Clarence E.
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Katsisiascas, Diane
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Henkel, James V
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Rose, Thomas Albert
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Lane, Thomas J
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Petratz, Wayne E
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Krepps, Jerald A
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Kuhr, Alexis
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Bohls, Margaret
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Yamada, Tetsuya
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Willow, Diane
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Stanislav, Andrea
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Schmid, Jenny
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prerequisite 5400, BFA candidate, sr;
Instructor: Momeni, Ali
Description: Student may contact the instructor or department for information.

ARTS 5490 Workshop in Art: Beijing Now: Preparation for Exchange
2 credits, maximum 12 credits; 12 repeats allowed;
Instructor: Wilgren Clyne, Cheryl L
Description: ARTS 5490 Beijing Now: preparation for exchange and collaboration. Course description ARTS 5490 is a course designed to introduce and guide students through the international exchange program between the Beijing Film Academy - University of Minnesota through the arts discipline. This initiative, begun in 2006 by the U of M Art Department Faculty and the faculty of Fine Arts and New Media divisions of the Beijing Film Academy, is now creating new opportunities for faculty and student collaborations, exhibitions, and scholarly and creative research. The sustainable exchange of ideas, art, people, projects between the Beijing Film Academy in China and the Art Department at the University of Minnesota will be highlighted. Guest artists and experts will discuss their experiences in China as academics, curators, artists and filmmakers. What is happening now (up to the minute) with the exchange program between the BFA + UMN will be shared with the students including the development of creating a sustainable program. Each student will connect with a student artist in Beijing to begin a series of discussions that may result in collaboration through sharing, research, artistic process, and online sources. Students will be given the opportunity to work with digital video (using television Studio E in Rarig) and photography in the exchanges but are not limited to these media. The class will study student work produced by the Beijing Film Academy. Text will be introduced to the class highlighting the most current trends in Chinese art. There will be an online documentation of the process and projects students create. An exhibition of student work will occur if the collaborations produce compelling outcomes. Experimentation and creativity are essential in this class.
ARTS 5490 Workshop in Art: The NYC Contemporary Art World
4 credit(s), max credits 12, 12 repeats allowed;
Instructor: Stanislav,Andrea
Description: An advanced level seminar for MFA and BFA candidates to explore the concepts and practices of one of the world's most important contemporary art centers: New York City. The course will investigate current theoretical/analytical ideas and issues in contemporary art framed with a critical focus on the New York City art world. Class will meet Thursdays during Spring Semester as students prepare for the May Term study trip, and will include occasional visits to off-site events or locations. Preparation for the study trip will consist of weekly reading assignments, slide presentations/video screenings, studio assignments, a research project, and seminar discussions. Students enrolled in this course will also need to enroll in the May Term study in NYC, which will be a hands-on experience. During this term, students will be expected to research, explore and engage in the contemporary art world through gallery and museum visits, meetings with curators and artists, and studio visits. Students will conduct in-dept creative research while challenging and questioning the role of the NYC art world in contemporary culture. Travel and housing will be arranged by the University for participants in the program during the May Term 3-week residence in New York. A seminar/project space will serve as studio and exhibition space for students' final seminar projects which are cumulative. The May Term course meets M-F (in NYC), and weekends for various events.

ARTS 5510 Advanced Printmaking
4 credit(s), max credits 12, 3 repeats allowed; prereq 3510 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Schmid,Jenny
Description: This class offers students the opportunity to develop their work by exploring advanced techniques including photo-lithography, mono-printing, polyester plates and the use of color in multiple layers. Students will be introduced to contemporary printmakers and conceptual issues through several slide lectures: Intensive critiques will also be integral to the functioning of this class. Students are expected to be self-motivated and have a committed studio practice in order to develop an advanced body of work.

ARTS 5630 Advanced Experimental Video
4 credit(s), max credits 12, 3 repeats allowed; prereq 3603 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lukkas,Lynn Tjernan
Description: Student may contact the instructor or department for information.

ARTS 5640 Advanced Animation
4 credit(s), max credits 12, 3 repeats allowed; prereq 3604 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Paul,Stephen
Description: Student may contact the instructor or department for information.

ARTS 5650 Advanced Sound Art
4 credit(s), max credits 12, 3 repeats allowed; prereq 3605;
Instructor: Willow,Diane
Description: Student may contact the instructor or department for information.

ARTS 5710 Advanced Photography
4 credit(s), max credits 12, 3 repeats allowed; prereq Two semesters of 3xxx photography or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Rainio,Minna Kristiina
Description: Student may contact the instructor or department for information.

ARTS 5810 Advanced Ceramics
4 credit(s), max credits 12, 4 repeats allowed; prereq [3801, 3802, 3810] or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Yamada,Tetsuya
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Pharis,Mark W
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Lyon,Joyce
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Lukkas,Lynn Tjernan
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Larson,Chris
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Baeumler,Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Feinberg,David L
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Morgan,Clarence E.
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Katsiaficas,Diane
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Henkel,James V
Description: Student may contact the instructor or department for information.
ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Rose, Thomas Albert
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Stanislav, Andrea
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Schmid, Jenny
Description: Student may contact the instructor or department for information.

ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq Major, completed regular course with instructor, instr consent ;
Instructor: Momemi, Ali
Description: Student may contact the instructor or department for information.

ARTS 8420 Seminar: Visiting Artists Program
1 credit(s), max credits 12, 4 repeats allowed; prereq
Instructor: Lane, Thomas J
Description: Student may contact the instructor or department for information.

ARTS 8300 Sculpture: Theory and Analysis
3 credit(s), max credits 6;
Instructor: Stanislav, Andrea
Description: This course investigates current theoretical and analytical ideas and issues in contemporary sculpture and multimedia practices framed with a critical focus and review regarding how contemporary sculpture is curated and exhibited. The seminar is comprised of studio critiques, readings/discussion of art criticism, cultural commentary/theory, along with field trips to visit gallery exhibitions, curators and artists. There will also be an extended class trip to the Judd Foundation/The Chinati Foundation in Marfa Texas. The seminar will question the current critical status quo. Special attention will be devoted to understanding different audiences for practical as well as theoretical reasons. Emphasis will be on developing new critical strategies to address new types of fused artistic practices (sculpture, video, interactive and socially engaged projects, and service-oriented practices). Participants are responsible for an in-class presentation.
Style: 30% Discussion, 20% Student Presentation, 40% Field Trips, 10% Studio.
Grading: 30% special projects, 10% attendance, 30% in-class presentation, 30% class participation.

ARTS 8401 Studio and Pedagogy: Philosophy and Practice
3 credit(s), max credits 6;
Instructor: Baeumler, Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 8401 Studio and Pedagogy: Philosophy and Practice
3 credit(s), max credits 6;
Instructor: Katsalifias, Diane
Description: Student may contact the instructor or department for information.

ARTS 820 Seminar: Visiting Artists Program
S-N only, 2 credit(s), max credits 12, 6 repeats allowed; prereq MFA student;
Instructor: Baeumler, Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 8500 Printmaking: Theory and Practice
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Schmid, Jenny
Description: Student may contact the instructor or department for information.
### ARTS 8600 Time and Interactivity: Theory and Practice
- **3 credit(s)**, max credits 12, 4 repeats allowed;
- **Instructor:** Lukkas,Lynn Tjernan
- **Description:** Student may contact the instructor or department for information.

### ARTS 8600 Time and Interactivity: Theory and Practice
- **3 credit(s)**, max credits 12, 4 repeats allowed;
- **Instructor:** Willow,Diane
- **Description:** Student may contact the instructor or department for information.

### ARTS 8600 Time and Interactivity: Theory and Practice
- **3 credit(s)**, max credits 12, 4 repeats allowed;
- **Instructor:** Momeni,Ali
- **Description:** Student may contact the instructor or department for information.

### ARTS 8700 Photography: Theory and Practice
- **3 credit(s)**, max credits 12, 4 repeats allowed;
- **Instructor:** Henkel,James V
- **Description:** Student may contact the instructor or department for information.

### ARTS 8800 Ceramics: Theory and Practice
- **A-F only, 3 credit(s)**, max credits 12, 4 repeats allowed;
- **Instructor:** Yamada,Tetsuya
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Pharis,Mark W
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Lyon,Joyce
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Baeumler,Christine Arle
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Gray,Lynn Arlyn
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Potratz,Wayne E
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Krepis,Jerald A
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Kuhrt,Alexis
- **Description:** Student may contact the instructor or department for information.

### ARTS 8990 M.F.A. Creative Thesis
- **1-9 credit(s)**, max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- **Instructor:** Estep,Jan
- **Description:** Independent study directed toward the graduate MFA thesis project. Generally restricted to graduate students in
the Department of Art's MFA program in their third and final year of study. Please contact instructor for permission to register for this course.

ARTS 8990 M.F.A. Creative Thesis
1-0 credit(s), max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent; Instructor: Yamada,Tetsuya Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis
1-0 credit(s), max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent; Instructor: Willow,Diane Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis
1-0 credit(s), max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent; Instructor: Schmid,Jenny Description: Student may contact the instructor or department for information.

ARTS 8990 M.F.A. Creative Thesis
1-0 credit(s), max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent; Instructor: Momeni,Ali Description: Student may contact the instructor or department for information.

Art History
338 Heller Hall

ARTH 1002V Why Art Matters
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Asher,Frederick M Description: Student may contact the instructor or department for information.

ARTH 1002W Why Art Matters
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Asher,Frederick M Description: Art matters! From billboards and graffiti on the streets to paintings and sculpture in museums, visual imagery informs our understanding of the world. This course will not only question "what is art?" but will also introduce students to the diverse ways in which art has and continues to function in society. The course is not a chronological survey of the history of art and great artists. Instead, it is thematic, looking at art from a variety of cultural perspectives and approaches. Through lectures and discussions, the course will examine such diverse topics as public art, illicit art trafficking, art and gender, art as a means of protest, and how art can be used to establish authority. The course is introductory, and assumes you have had no prior exposure to art history. There will be three quizzes during the semester plus a final exam; in addition, there will be brief writing assignments (some creative, some analytical) that will address the topics discussed in class. Grading: 20% final exam, 40% reports/papers, 20% quizzes, 10% class participation, 10% other evaluation. timeline assignment

ARTH 1921W Introduction to Film Study
4 credit(s); Credit will not be granted if credit has been received for: CSCL 1921; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Lekas,Michelle Yvonne Description: This course functions as an introduction to film study in which we will: 1. overview the history of cinema 2. analyze film scenes 3. introduce various theories and approaches film study We will watch a number of films from early cinema to the present and read a series of articles from Jean-Louis Baudry, Slavoj Zizek, Peter Wollen, and others. One film analysis paper (4 pages) and one theoretical film paper will be assigned, as well as three quizzes. Student participation is required.

ARTH 3013 Introduction to East Asian Art
3 credit(s); Credit will not be granted if credit has been received for: EAS 3013; Instructor: Poor,Robert John Description: This course will examine a representative selection of the art produced in China, Korea and Japan from the Neolithic era down to Modern times. Art of every type and style, such as ancient jades and ritual bronze vessels, Buddhist sculpture and temple architecture, landscape paintings and gardens, and popular paintings and prints is included. We will employ archaeological and art historical techniques to situate these objects in their cultural settings while underlining their character as unique works of art. This course will be web enhanced and a teaching assistant will be available to assist you in the preparation of a short take-home museum assignment. This course is intended for undergraduates. No previous courses in art history are required. Style: 80% Lecture, 20% Discussion. Grading: 33% mid exam, 33% final exam, 33% reports/papers. Exam Format: essay

ARTH 3014W Art of India
4 credit(s); Credit will not be granted if credit has been received for: ALL 3014W; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Asher,Frederick M Description:

ARTH 3017 Islamic Culture
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; Instructor: Asher,Catherine B Description: This course will emphasize the visual and literary culture of the Islamic world from the inception of Islam to the present day. It will be global in content considering architecture, painting, luxury arts, film, religious and secular literature including both poetry and prose. Analysis of original visual and literary sources will be the basis for understanding diverse cultural developments. We will read selections from the Quran, early Arab poetry, the works of Rumi, manuals on how kings should behave and contemporary literature from the Muslim world including the option of reading current noble prize winners. Art and architecture to be examined include the Dome of the Rock, the Taj Mahal and sumptuous paintings as well as luxury arts of ivory, porcelain and more. Style: 80% Lecture, 15% Film/Video, 15% Discussion, 10% Small Group Activities. If the class is not large there will be more opportunity for class discussion and group activities. Grading: 30% final exam, 30% reports/papers, 40% quizzes.

ARTH 3315 The Age of Curiosity: Art and Knowledge in Europe, 1500-1800.
3 credit(s); Instructor: Gaudio,Michael P Description: During the early modern period in Europe (ca. 1500-1800), borders between "art" and "science" (to the extent that these borders existed at all) were very much in-the-making,
and it was possible to cross them with relative ease. Leonardo da Vinci is just one example of an early modern artist for whom the distinction between the artist’s creative capacities and the pursuit of scientific curiosity was, to put it simply, unfathomable. This course will introduce you to the diverse ways in which the making of art and the making of scientific knowledge intersected in early modern Europe. We will explore connections between scientific curiosity and the visual arts by considering major artists (Leonardo, Durer, Vermeer, Rembrandt, etc.). We will also consider the artfulness of visual materials we tend to classify as "scientific," including scientific imagery and diagrams, geographical maps, cabinets of curiosities, and new visual technologies such as the telescope and microscope.

**ARTH 3655 African-American Cinema**
3 credit(s); Credit will not be granted if credit has been received for: AFRO 4655; Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

**ARTH 3921W Art of the Film**
4 credit(s); Meets CLE req of International Perspectives Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Silberman, Robert B
Description: This course provides an introduction to the history and aesthetics of film. Special attention is paid to major film directors, genres, and styles; to the relation between film and other arts (literature, theater, photography, painting, music); and to the relation between film and society. Among the films shown are "The Birth of a Nation," "Metropolis," "Citizen Kane," "Rashomon," and "Bonnie and Clyde." The course is appropriate for non-major undergraduates as well as Art History and Cinema Studies majors. This course follows a lecture/discussion format. There are required discussion sections. Most films are screened in class but there will be additional films that students will be required to watch on videos/DVDs. The term paper is 6-8 pages long; it is not a research paper. There will also be several brief (one-page) writing assignments. Textbooks: Bordwell and Thompson, Film Art and Film History.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 35% final exam, 40% reports/papers.
Exam Format: short answer (terminology and concepts), film clip ID (brief analysis), essay

**ARTH 3975 Directed Museum Experience**
S-N only, 1-2 credit(s), max credits 2, 1 repeat allowed; 
prereq instr consent;
Instructor: STAFF
Description: The student is responsible for obtaining an internship in an art institution or museum which must be approved by the Director of Undergraduate Studies in Art History. For 2 credits the internship must be for at least 10 hours per week. S/N registration only. Open to majors and non-majors. Speak with the ArtH DUGS for more information.
Style: On-site internship.
Grading: Grade (S-N) recommended by intern supervisor.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Asher, Catherine B
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Cooper, Frederick A
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Poor, Robert John
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Mc Nally, Sheila J
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Weisberg, Gabriel
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Silberman, Robert B
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Blocker, Jane M
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Gaudio, Michael P
Description: Student may contact the instructor or department for information.

**ARTH 3993 Directed Study**
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; 
prereq instr consent;
Instructor: Ostrow, Steven F
Description: Student may contact the instructor or department for information.

**ARTH 5172 House, Villa, Tomb: Roman Art in the Private Sphere**
3 credit(s); prereq One intro art history course or instr consent; Credit will not be granted if credit has been received for: CNES 5172;
Instructor: Schrunk, Ivancica D
Description: Student may contact the instructor or department for information.

**ARTH 5325 Art of the Aztec Empire**
3 credit(s); Credit will not be granted if credit has been received for: ANTH 5325;
Instructor: Afanador Pujol, Angelica Jimena
Description: Student may contact the instructor or department for information.

**ARTH 5466 Contemporary Art**
3 credit(s); prereq 3464 or instr consent;
Instructor: Blocker, Jane M
Description: Aimed at advanced undergraduates and graduate students, this course will survey the art and important critical
literature of the last thirty-five years. Its goal is to examine the aesthetic and theoretical debates of this period, including such things as postmodernism, poststructuralism, new media, and theories of globalization. Its goal is to contextualize, both historically and theoretically, the present state of art production and reception. Students will be asked to read critical texts, participate in discussions, and write three take-home essay exams.

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 90% reports/papers, 10% class participation.

**Exam Format:** There will be three take-home essay exams/papers.

### ARTH 5655 African American Cinema

**3 credit(s); Credit will not be granted if credit has been received for:** AFRO 4655; Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core

**Instructor:** Wright, John Samuel

**Description:** This course, co-taught by John Wright from the Department of African American & African Studies, and Rob Silberman, Department of Art History, examines film representations of the African American experience. It features films by both African American directors (Oscar Micheaux, Gordon Parks, Julie Dash, Spike Lee, Haile Gerima, etc.) and directors who are not African American (Dudley Murphy, Otto Preminger, Michael Roemer, etc.). Among the films to be viewed are Within Our Gates, The Emperor Jones, Nothing But a Man, The Learning Tree, Sankofa, Superfly, Daughters of the Dust, and Malcolm X. The course is appropriate for graduate students and advanced undergraduates. It follows a lecture-discussion format. Films will be screened in class each week; but students will be required to view additional films outside of class on video. Short papers and film responses will be assigned throughout the class. A research term paper 15-20 pages long must be completed at the end of the semester. The course will use a Course Lib web site on Lumina [AFRO 5655].

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 25% mid exam, 35% final exam, 40% reports/papers.

**Exam Format:** essay questions

### ARTH 5655 African American Cinema

**3 credit(s); Credit will not be granted if credit has been received for:** AFRO 4655; Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core

**Instructor:** Silberman, Robert B

**Description:** This course, co-taught by John Wright from the Department of African American & African Studies, and Rob Silberman, Department of Art History, examines film representations of the African American experience. It features films by both African American directors (Oscar Micheaux, Gordon Parks, Julie Dash, Spike Lee, Haile Gerima, etc.) and directors who are not African American (Dudley Murphy, Otto Preminger, Michael Roemer, etc.). Among the films to be viewed are Within Our Gates, The Emperor Jones, Nothing But a Man, The Learning Tree, Sankofa, Superfly, Daughters of the Dust, and Malcolm X. The course is appropriate for graduate students and advanced undergraduates. It follows a lecture-discussion format. Films will be screened in class each week; but students will be required to view additional films outside of class on video. Short papers and film responses will be assigned throughout the class. A research term paper 15-20 pages long must be completed at the end of the semester. The course will use a Course Lib web site on Lumina [AFRO 5655].

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 25% mid exam, 35% final exam, 40% reports/papers.

**Exam Format:** essay questions

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Silberman, Robert B

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Cooper, Frederick A

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Poor, Robert John

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Mc Nally, Sheila J

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Weisberg, Gabriel

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Asher, Frederick M

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Silberman, Robert B

**Description:** Student may contact the instructor or department for information.

### ARTH 5993 Directed Study

**A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent:**

**Instructor:** Blocker, Jane M

**Description:** Student may contact the instructor or department for information.
ARHT 5993 Directed Study
A-F only, 1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent;
Instructor: Ostrow, Steven F
Description: Student may contact the instructor or department for information.

ARHT 8340 Seminar: Baroque Art: Gianlorenzo Bernini: Art and Invention
3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent;
Instructor: Ostrow, Steven F
Description: Student may contact the instructor or department for information.

AAS 3001 Contemporary Perspectives on Asian America
3 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: Onishi,Yuichiro
Description: "Contemporary Asian America" is an oft-used category to mark the transformation of Asian America since the passage of the U.S. Immigration Act of 1965. This law ended decades-long legally-sanctioned Asian immigrant exclusion and facilitated the emergence of new Asian American communities and cultures. Because of this immigration reform, in part, Asian immigrant and Asian American populations are today diverse in terms of ethnicity and origin, as well as language, patterns of settlement, political experience, and educational backgrounds. Moreover, although not acknowledged explicitly, the outcome of this immigration reform coincided with (1) the escalation of wars in Southeast Asia and these wars' afterlife, including refugee resettlement in the United States; (2) changes in the global political economy; and (3) the ascent and institutionalization of Asian American Studies as an academic discipline. Analyzed together, these contemporary perspectives not only encourage new and critical ways of imagining Asian America but also incite new formations within the field of Asian American Studies to challenge existing paradigms and orientations. Conceived as a reading-intensive seminar, one of the course requirements is that students lead and facilitate class discussions throughout the semester. Students who are interested in engaging with at times intellectually challenging but ultimately generative discussions and questions coming out of Asian American cultural politics and criticism are encouraged to take this class.
Style: 25% Lecture, 75% Discussion.
Grading: 90% written homework, 10% class participation.

AAS 3270 Service Learning in the Asian Community
2 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Lee, Juvaah
Description: This Service Learning course is designed to provide academic, social and cultural support to the new Hmong refugee students from Wat Tham Krabok. This course will give the new Hmong refugee students the opportunity to learn English and exchange cultural experience with University of Minnesota students. The main focus of this course is to promote literacy by focusing on English readings. While assisting with the English learning, university students and elementary students may also work on cultural exchange and/or other subject matters. Students that are interested in working with other Asian American communities can also be arranged.
Style: 30% Lecture, 70% Discussion.
Grading: 40% papers/reports, 30% class participation, 30% other evaluation, volunteer
Exam Format: no exam

AAS 3920 Topics in Asian American Studies: Refugees from a Secret War: Hmong in America
3 credit(s), max credits 8; prereq Jr or sr;
Instructor: Lee, Mai Na M.
Description: Student may contact the instructor or department for information.

AAS 3920 Topics in Asian American Studies: Asian American Popular Cultures
3 credit(s), max credits 8; prereq Jr or sr;
Instructor: Isler, Hilal Nakiboglu
Description: This course offers an examination of American popular culture as it relates to and impacts the Asian Pacific American experience. Students will be introduced to Exclusion Era portrayals of Asians in film, and to the practice of yellowface. Fu Manchu (the archetype of evil) and Charlie Chan (the "good Oriental") will be examined not just as early stereotypes, but as examples of how American understandings of Asia/Asians are often contradictory and fli back-and-forth between opposing poles of desire and revulsion. Popular culture is a rich, fertile site of expression, cultural conflict and sometimes, social pedagogy. In this course, we will learn to "read" pop culture practice, and become critical consumers of its various forms. We will study examples of fiction, film and television, music, fashion and art in examining the (often racist) ideologies and vehicles through which dominant, hegemonic American culture has presented and continues to present Asian Pacific Americans. We will also consider Asian American cultural production, and the ways in which it can help counter and contest these dominant messages. We will dedicate time to understanding how popular culture negotiates and produces feelings of fear, pleasure, disgust, desire. Students will be encouraged to engage with the local Asian American arts scene, and will be given the opportunity to carry out ethnographic fieldwork.

AAS 5920 Topics in Asian American Studies: Grad Proseminar-Asian American/Diaspora Studies
1 credit(s), max credits 3, 3 repeats allowed;
Instructor: Lee, Josephine D
Description: This course offers students an opportunity to have discussions about current topics relevant to the theories and methodologies of Asian American/Diaspora Studies. This course is designed for students who wish to include this area of expertise in their graduate experience. Asian American/Diaspora Studies foregrounds a transnational, comparative, and intersectional framework within the context of the United States and the broader Asian diasporas. Topics vary semester by semester and will be chosen by the participating faculty. The course topics may delve into discussions of how empire, state power, racist nationalism, and capitalism have created displacement, migration, exclusion, resistance, and injustice in the United States and in Asian diasporas. Students are asked to do readings and come to the seminar prepared for discussion. The course may be repeated for credit for up to 4 credits, subject to approval.

AAS 5920 Topics in Asian American Studies
3 credit(s), max credits 3, 3 repeats allowed;
Instructor: Lee, Erika
Description: Student may contact the instructor or department for information.

Asian Languages and Literatures
453 Folwell Hall

ALL 3001 Reading Asian Cultures
A-F only, 3 credit(s);
Instructor: Sahota, Bali S.
Description: This course will introduce students to contemporary Critical Theory, especially the ways in which it is
relevant for the study of Asia. Readings will emphasize the philosophical-historical premises of critical approaches to the study of literature, culture, and society. In Spring 09, the themes will be the rise of modern imperialism, the relationship between culture and society as understood in the theory of commodity fetishism, the rise of modern imperialism, the impact of imperial capitalism on Asian societies, and the responses of China, Japan, and India to the rise of imperialism. The course concludes with an assessment of cultural studies and postcolonial approaches that have formed over the decades of American neo-imperialism. Readings will include classic works by Adam Smith, Karl Marx, Vladimir Lenin, Mahatma Gandhi, Mao Tse Tung, and more recent works by Raymond Williams and Robert Young.

Style: 50% Lecture, 25% Film/Video, 25% Discussion.
Grading: 30% reports/papers, 50% attendance, 20% other evaluation.

ALL 3014W Art of India
4 credit(s); prereq Credit will not be granted if credit has been received for: ARTH 3014W; Credit will not be granted if credit has been received for: ARTH 3014W; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive
Instructor: Asher,Frederick M
Description: When one thinks of the countries comprising South Asia - India, Pakistan, Afghanistan and Bangladesh - Westerners often think of massive social, political and economic problems. Not adequately recognized, however, is the power of art in the region: the power to induce the Taliban to destroy the massive and world renown Bamyan Buddhas, the power to stimulate mobs intent on ransacking an exhibition of art or to destroy a mosque of great historical importance. By looking at the power of art in this part of the world, we can better reflect on the power of the visual world around us every day. Simply stated, the art of South Asia is extraordinary. The course will examine both secular art and the works produced for the region's several religions, reflecting a diversity not unlike that of the United States. In the process, students will be given an opportunity to examine critically art and its production as well as the ways in which the art has been used and understood both at the time of its creation and subsequently. There will be two exams and one paper. Discussion sections will offer the opportunity to probe the material in greater depth and review as necessary. All material discussed in class will be available on the Web. The course assumes neither prior knowledge of India nor of art history.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 25% final exam, 40% reports/papers, 10% class participation.
Exam Format: Brief essay

ALL 3265W The Fantastic in East Asia: Ghosts, Foxes, and the Alien
3 credit(s); prereq Some coursework in East Asia recommended; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive
Instructor: Rouzer,Paul F
Description: An investigation into aspects of the weird, the strange, and the fantastic in premodern and modern narrative in East Asia. In comparison to Western conceptions of the Fantastic and the Supernatural, we will look at what the &quot;strange&quot; might mean in a culture that does not share the same cultural and religious assumptions as the West. For example, what defines the human and the non-human? What role do gender presumptions play in constructing a fantastic Other? What impact do the cosmology and the soteriology of Buddhism have in this world? Also, how does this perspective affect how the modern fantastic manifests itself in China and Japan - particularly in film and anime?
Style: 60% Lecture, 40% Discussion.
Grading: 30% final exam, 60% reports/papers, 10% class participation.
Exam Format: Take home; short answer.

ALL 3270 Service Learning in the Asian Community
2 credit(s), max credits 4; prereq instr consent ;
Instructor: Lee,Juavah
received for: SALC 3413/SALC 5413; Credit will not be granted if credit has been received for: ALL 5672; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Junghare, Indira Y
Description:

ALL 3676 Culture and Society of India
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3023; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

ALL 3900 Topics in Asian Literature: India through Time: Historicity and Periodization
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Sahota, Bali S.
Description: India and Time have related to each other in distinct ways. Over the modern period, India has been understood to be without history, to be the deep past of the present, to have British rule as its destiny, to have Hindu and Muslim golden ages, and, not least, to defy historical constructs altogether. Along with these ideologies of time, this course will also take into consideration temporal understandings of Indian traditions that arose since the beginning, as well as notions of “beginnings” and “endings”, whether assumed or made explicit, in different historical accounts of the Indian past. The readings will be primarily recent studies of Indian cultural history (by, say, Trautmann, Pollock, Alam, Subrahmanyanam, and Guha), but we will also consider short theoretical reflections on the nature of historicism, narrative, and periodization (in the works of, say, Bhattacharya, Amin, Chakrabarty, and Chatterjee, in the South Asia field, and Koselleck, White, Jameson, and Williams, with respect to other archives). The course is meant to orient students to the Indian past as well as the theoretical debates that mediate it today.
Style: 60% Lecture, 10% Film/Video, 30% Discussion.
Grading: 80% reports/papers, 15% in-class presentation, 5% class participation. Option will be given to either write a long research paper or a series of short response papers on the units of the course.

ALL 3900 Topics in Asian Literature: Global Haiku
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Johnson, Jeffrey Richard
Description: Student may contact the instructor or department for information.

3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Johnson, Jeffrey Richard
Description: Student may contact the instructor or department for information.

ALL 3920 Topics in Asian Culture: Narrating History in Korean Literature and Film
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Cho, Hee Young
Description: Korea and its people have had a turbulent 20th century. This course utilizes historical, literary, and filmic narratives to explore the junctures and disjunctures between official history and personal experience of modernization, colonization, war, division, and democratization in 20th century Korean society. In addition, we will ask questions such as: How can we interpret literary and filmic representation of history in relation to historical narrative? How can we define subjective vs. objective accounts of history? Throughout this course, we will also think about the role of art in socio-political movements, the difference between the artist’s intentionality and the product’s actual impact, and the meaning of the revival of a historical moment through an artistic medium. How does art embody history through its aesthetic representation? How does art construct history and change the way it is remembered? All readings will be in English.

ALL 3990 Directed Study
1-3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Molasky, Michael S
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses.
Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study
1-3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: McGrath, Jason
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses.
Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 3990 Directed Study
1-3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Rouzer, Paul F
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses.
Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations.

ALL 4900W Major Project
A-F only, 3 credit(s); prereq ALL major, sr; Meets CLE req of Writing Intensive;
Instructor: Dooghan, Daniel M
Description: Student may contact the instructor or department for information.

ALL 5359 Early Shanghai Film Culture
3 credit(s);
Instructor: McGrath, Jason
Description: This course explores the rich history of Chinese cinema from the earliest extant films of the 1920s to the end of the Republican Era (and the beginning of Communist rule) in 1949. Topics to be covered include influences on early Chinese film ranging from traditional Chinese drama to contemporary Hollywood productions, the effects of leftist politics on commercial cinema, and the Chinese star system and material film culture. Film styles and genres examined include traditional narratives, slapstick comedy, social realism, horror, romantic comedy, and a proto Chinese art cinema, but in every case the focus will be on what the films tell us about the experience of modernity in China and the ways artists and audiences used cinema to both reflect and intervene in the conditions of their lives under semi-colonial capitalism.
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 20% Student Presentation.
Grading: 60% reports/papers, 10% quizzes, 10% written homework, 10% in-class presentation, 10% class participation.

ALL 5672 Buddhism

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ALL 5900 Directed Study
3 credit(s); max credits 12, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Sahota, Ball S.
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Open to advanced students only. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be asked to do more independent reading and writing, beyond those assigned to undergraduate students.

ALL 5920 Topics in Asian Culture: War and Memory in East Asia
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Mizuno, Hiromi
Description: Student may contact the instructor or department for information.

ALL 5990 Directed Study
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Molasky, Michael S
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Open to advanced students only. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations. Graduate students will be asked to do more independent reading and writing, beyond those assigned to undergraduate students.

ALL 5990 Directed Study
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: McGrath, Jason
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Open to advanced students only. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations. Graduate students will be asked to do more independent reading and writing, beyond those assigned to undergraduate students.

ALL 5990 Directed Study
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Rouzer, Paul F
Description: Individual reading and study with guidance of a faculty member of topics not covered in regular courses. Open to advanced students only. Evaluation Standards and Workload: Variable, depending on course of study determined by the student and faculty. Generally students will be asked to do more independent reading and writing, beyond those assigned to undergraduate students.

Variable, depending on course of study determined by the student and faculty. Generally students will be evaluated on written materials, exams, and presentations. Graduate students will be asked to do more independent reading and writing, beyond those assigned to undergraduate students.

AST 1005 Exploring the Universe
4 credit(s); Credit will not be granted if credit has been received for: AST 1011H; Meets CLE req of Environment Theme;
Instructor: STAFF
Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the Universe and the formation of the Earth and the solar system. We compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. This course includes study of the properties of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. Although largely descriptive, the course will occasionally require the use of junior-high level mathematics. This course is intended for non-science majors; no science background is necessary. IT students should take AST 1011H.
Grading: 50% Lecture, 10% Discussion, 40% Laboratory.
Exam Format: multiple choice, short answer, essay

AST 1005 Descriptive Astronomy
3 credit(s); prereq non-science major; Credit will not be granted if credit has been received for: AST 1001;
Instructor: STAFF
Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the Universe and the formation of the Earth and the solar system. We compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. This course includes study of the properties of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. Lectures are 2 days a week. This course is intended for non-science majors; no science background is necessary. IT students should take AST 1011H. Course meets concurrently with the evening section of AST 1001.
Grading: 85% Lecture, 15% Discussion.
Grading: 80% final exam, 20% final exam.
AST 1905 Freshman Seminar: Nothing
2 credit(s), max credits 3, 1 repeat allowed; prereq freshman;
Instructor: Rudnick,Lawrence
Description: Is nothing too wonderful to be true, as the great
18th century physicist Michael Faraday pondered? Following the
Bard, in this seminar we will make much ado about "nothing."
From the birth of the Universe ex nihilo, to the philosophies that
find meaning in nothing, to the tangle history of zero over the
centuries, to our beginnings as seen by theologies when even
nothing was not. In our journey through the teeming vacuum,
"nothing" is sacred, and will be both ventured and gained.
Caution is advised, however, in telling people that you've signed
up for "nothing"! [URL is a puzzle; it will also be updated for 2008]
Style: 75% Discussion, 25% Student Presentation.
Grading: 40% reports/papers, 20% special projects. 20%
in-class presentation, 20% class participation.

AST 1905 Freshman Seminar: Cosmic Catastrophes
2 credit(s), max credits 3, 1 repeat allowed; prereq freshman;
Instructor: Rudnick,Lawrence
Description: Cosmic Catastrophes: Bored with life's everyday
perils? Let's explore some bigger ones instead - planetary-sized
nightmares, genuine dangers out there in the universe. Everyone
has heard of asteroid impacts, but do you know how many awful
things they can do? How hard is it to fend off an approaching
comet? On a galactic scale, how often do planets like ours get
fried by GRB's? How much sh9ould the insurance company
charge for supernova coverage? In this course we'll investigate
at least six real astronomical threats to civilization, some of
which have actually occurred in the past.
Style: 100% Discussion.
Grading: 40% reports/papers, 20% special projects, 20%
in-class presentation, 20% class participation.

AST 2001 Introduction to Astrophysics
4 credit(s); prereq [One yr calculus, PHYS 1302] or instr consent;
Instructor: Gehrz,Robert Douglas
Description: Student may contact the instructor or department
for information.

AST 2990 Directed Studies
1-5 credit(s), max credits 5, 1 repeat allowed; prereq 1 yr
calculus, Phys 1302, instr consent;
Instructor: STAFF
Description: Independent, directed study in observational and
theoretical astrophysics. Arrange with a faculty member.

AST 3002 Astrophysics II
A-F only, 4 credit(s); prereq 2001, Phys 2601;
Instructor: Williams,Lilya L R
Description: Galaxies, structure and evolution, active galaxies.
Clusters of galaxies, introductory cosmology.
Style: 30% Lecture, 50% Discussion, homework discussions
Grading: 20% reports/papers, 15% in-class presentation, 50%
class participation, 15% problem solving.

AST 4101 Computational Methods in the Physical Sciences
4 credit(s); prereq Upper div or grad student or instr consent
Instructor: Jones,Thomas Walter
Description: Student may contact the instructor or department
for information.

AST 4299H Senior Honors Astrophysics Research Seminar
1 credit(s), max credits 2, 1 repeat allowed; prereq upper div
honors student in IT or CLA, inst consent;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.
BIOC 3021 Biochemistry  
3 credit(s); prereq [[BIOC 2003 or BIOL 1002 or BIOL 1009], CHEM 2301], or instr consent ; Credit will not be granted if credit has been received for: BIOC 6021;  
Instructor: Hooper, Alan B  
Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. Text: “Principles of Biochemistry with a Human Focus”, Garrett and Grisham, Harcourt College Publishers, 2001.  
Style: 100% Lecture.  
Grading: 75% mid exam, 25% final exam.  
Exam Format: Short answer, write structures, multiple choice, solve problems, short essays

BIOC 3022 Biochemistry I: Introduction to Enzyme Kinetics  
3 credit(s); prereq [[BIOC 2003 or BIOL 1002 or BIOL 1009], CHEM 2301], or instr consent ; Credit will not be granted if credit has been received for: BIOC 6021;  
Instructor: Adolph, Kenneth W.  
Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. Text: “Principles of Biochemistry with a Human Focus”, Garrett and Grisham, Harcourt College Publishers, 2001.  
Style: 100% Lecture.  
Grading: 75% mid exam, 25% final exam.  
Exam Format: Short answer, write structures, multiple choice, solve problems, short essays

BIOC 3960 Research Topics in Biochemistry  
S-N only, 1 credit(s), max credits 2; prereq 3021 or concurrent enrollment in 3021 or or 4331 concurrent enrollment in 4331 or instructor consent;  
Instructor: Laporte, David C  
Description: The goal of Research Topics in Biochemistry is to expose students to a wide variety of cutting-edge research projects. The course will begin with a two-lecture introduction covering how to use scientific papers and the basic concepts of experimental design and analysis. Faculty from the BMBB Department will then give a series of presentations on cutting edge research. Each faculty member will give two presentations. The first will be a broad overview of a research area and the second will focus on a specific paper, dissecting all or part of it in detail.  
Style: 50% Lecture, 25% Discussion, 25% Small Group Activities.  
Grading: 50% written homework, 50% attendance.  
Exam Format: No Exam

BIOC 4025 Laboratory in Biochemistry  
2 credit(s); prereq 3021 or 4331 or equiv;  
Instructor: Lange, Alex John  
Description: Theory and practice of modern biochemical techniques including buffers and pH, protein (lactate dehydrogenase) purification, protein electrophoresis, enzyme characterization using kinetics and immunochemical methods, recombinant DNA techniques.  
Style: 40% Lecture. 60% Laboratory.  
Grading: 33% mid exam, 34% final exam, 33% quizzes.  
Exam Format: short answer and problems

BIOC 4125 Laboratory in Molecular Biology and Biotechnology  
A-F only, 3 credit(s); prereq [3021 or Biol 3021 or or Biol 4003], [4025 or GCD 4015 or GCD 4025 or MicB 3301]; Credit will not be granted if credit has been received for: BIOL 4125;  
Instructor: Laporte, David C  
Description: The course will provide laboratory training in the methods commonly used in molecular biology laboratories in academia and industry. Techniques that will be learned include: cloning and analysis of DNA, diagnostic detection methods, DNA sequencing, DNA and protein sequence analysis using databases, PCR amplification of DNA, and site-specific mutagenesis.  
Style: 25% Lecture, 75% Laboratory.  
Exam Format: Written and Problem Solving

BIOC 4325 Laboratory in Mass Spectrometry  
S-N only, 1 credit(s); prereq 4332, 4521;  
Instructor: Nielsestuen, Gary L  
Description: Student may contact the instructor or department for information.

BIOC 4331 Biochemistry I: Structure, Catalysis, and Metabolism in Biological Systems  
4 credit(s); prereq [[BIOL 1002 or BIOL 1009 or BIOL 2003 or equiv], [CHEM 2302 or equiv]] or instr consent ;  
Instructor: Wilmot, Campbell M  
Description: “Biochemistry I: structure, catalysis, metabolism in biological systems.” The first 11 lectures review basic chemical concepts and then discuss primary structure (amino acids and sequence), secondary structure (helices, sheet turns), tertiary structure (folding, three dimensional structure) and quaternary structure (subunits and their interactions) of proteins. The next 9 lectures deal with enzyme kinetics and mechanisms and binding
interactions. The next 8 lectures discuss carbohydrates, lipid and membrane structures, transport processes. The final 12 lectures discuss metabolic pathways including, glycolysis, glycogen synthesis, the citric acid cycle, oxidative phosphorylation, amino acid and nitrogen metabolism, and lipid synthesis and metabolism. Thermodynamic considerations are emphasized for all pathways. The course covers about 50% of the material in the textbook, "Lehninger Principles of Biochemistry" Fourth Edition, by Nelson and Cox. Most students in the class are expected to be Biochemistry majors. Website on WebCT.

**BIOC 4332 Biochemistry II: Molecular Mechanisms of Signal Transduction and Gene Expression**

4 credit(s); prereq 4331 or instr consent;

**Instructor:** Livingston,Dennis M

**Description:** BioC 4332 covers fundamental molecular biology and signal transduction. The course begins with the molecules and processes by which cells store, replicate, repair and express generic information in the form of DNA, RNA and proteins. The latter part of the course describes regulatory processes that involve control of gene expression and mechanisms of signal transduction. The emphasis in the course is on the biochemical basis of gene function and biological regulatory processes. This course is designed for upper division undergraduates in the biological sciences, as well as beginning graduate students in other biological programs. Textbook: Molecular Biology of the Cell by Albert's et al., Garland Science, Fifth Edition (2008). Students possessing the Fourth Edition (2002) do not need to purchase the Fifth Edition.

**Style:** 90% Lecture, 10% Discussion.

**Grading:** 75% mid exam, 25% final exam.

**Exam Format:** Exams will have both short answer (multiple choice, fill-in-the-blank) questions (approx 30-40%) and longer answer formats requiring you to explain and diagram concepts.

**BIOC 4521 Introduction to Physical Biochemistry**

3 credit(s); prereq CHEM 1022, MATH 1272, PHYS 1202; 4331 recommended;

**Instructor:** Walters,Kylie J

**Description:** The objective of this course is to introduce and develop the concepts of physical chemistry that are most important for biochemistry. Desired outcomes are for students to develop a basic understanding of how thermodynamics, kinetics, spectroscopy, and solution dynamics can be applied to biochemical problems, and to provide a background for those students who wish to pursue further study in physical biochemistry.

**Style:** 100% Lecture.

**Grading:** 80% additional semester exams, 10% attendance, 10% class participation. 80% of grade is given to the 4 exams given during the semester (20% for each)

**Exam Format:** problem solving

**BIOC 4793W Directed Studies: Writing Intensive**

S-N only, 1-7 credit(s), max credits 7, 7 repeats allowed;

**prereq instr consent , dept consent ;**

**Instructor:** STAFF

**Description:** Individual study on selected topics or problems with emphasis on selected readings and use of scientific literature.

**BIOC 4994 Directed Research**

S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;

**prereq instr consent , dept consent ;**

**Instructor:** STAFF

**Description:** Laboratory or field investigation of selected areas of research.

**BIOC 5225 Graduate Laboratory in NMR Techniques**

S-N only, 1 credit(s); prereq 8001 or instr consent;

**Instructor:** Ostrowski,Beverly Gaul

**Description:** Student may contact the instructor or department for information.

**BIOC 5309 Biocatalysis and Biodegradation**

3 credit(s); prereq chemistry through organic chemistry, knowledge of wordprocessing, e-mail, access to World Wide Web, access to college-level science library.; Credit will not be granted if credit has been received for: MICE 5309;

**Instructor:** Wackett,Lawrence Philip

**Description:** This course will teach students microbial catabolic metabolism, how to use the University of Minnesota Biocatalysis/Biodegradation Database (UM-BBD) and related Internet resources for microbial biotechnology, and how to author World Wide Web pages. The biochemistry covered is important for basic understanding of nature, biocatalysis leading to specialty chemical manufacture, and biodegradation of environmental pollutants. Under the supervision of the instructors, students will develop Web pages on microbial catabolic metabolism of environmental pollutants and learn to evaluate the information in web-based databases. Prerequisites are one year of organic chemistry; one course in biochemistry; basic familiarity with computers, the WWW, and electronic mail. Access to a college-level scientific library is desired. This course is taken by advanced undergraduates, graduate students, and working professionals. Instruction is completely over the Internet. There are no class meetings and students from all over the country have taken the class in previous offerings. Grades are determined by class listserv participation (10%), and the successful completion of nine assignments (90%).

**Style:** Internet

**Grading:** 90% special projects, 10% class participation.

**BIOC 5352 Biotechnology and Bioengineering for Biochemists**

A-F only, 3 credit(s); prereq [[3021 or 4331 or BIOL 3021 or or MICB 4111], [BIOL 3301 or MICB 3301]] or instr consent;

**Instructor:** Schmidt-Dannert,Claudia

**Description:** This class will provide a comprehensive introduction to major topics in biotechnology research and development. Topics that will be discussed range from isolation, recombinant production and engineering of biotechnological relevant proteins (e.g. industrial enzymes, biocatalysts and therapeutic proteins) to small molecule biotechnology. The latter topics include the production of important primary (e.g. amino acids, organic acids) and secondary (e.g. antibiotics and other bioactive molecules) metabolites, as well as strategies of metabolic pathway engineering and diversification in the "Omics" area to achieve increased production levels and for drug discovery purposes. Several guest lecturers from local biotechnology/biomedical companies will link class contents to practical applications and provide insights into actual industrial research and development.

**Grading:** 25% mid exam, 25% final exam, 25% reports/papers, 25% quizzes.

**BIOC 5444 Muscle**

3 credit(s); prereq Biol/BioC 3021 or 4331 or Phsl 3061 or instr consent;

**Instructor:** STAFF

**Description:** Credit will not be granted if credit has been received for: PHSL 5444;
Instructor: Thomas, David D  
Description: Introduction to physiology, biochemical regulation, and physical chemistry of muscle contraction. Prerequisites: undergraduate course in biochemistry or physiology.  
Style: 80% Lecture, 15% Discussion, 5% Laboratory.  
Grading: 25% final exam, 35% reports/papers.  
Exam Format: essay, problem solving

BIOC 5528 Spectroscopy and Kinetics  
4 credit(s); prerequisite Intro physical chemistry or equiv; intro biochemistry recommended  
Instructor: Lipscomb, John D  
Description: Biochemical dynamics from perspectives of kinetics and spectroscopy. Influence of structure, molecular interactions, and chemical transformations on biochemical reactions. Focuses on computational, spectroscopic, and physical methods. Steady-state and transient kinetics. Optical and magnetic resonance spectroscopies.  
Style: 90% Lecture, 10% Discussion.  
Grading: 50% final exam, 30% problem set, 20% written homework. Two exams are given in the first half of the course. Graded problem sets and a final exam constitute the grading in the second half  
Exam Format: Problem solving and essay.

BIOC 5532 Macromolecular Crystallography II: Techniques and Applications  
S-N only, 1 credit(s); prerequisite 5531  
Instructor: Ohlendorf, Douglas Henry  
Description: Determining the structure of macromolecules by diffraction. Using software in macromolecular crystallography.

BIOC 6021 Biochemistry  
3 credit(s); prerequisite general biology, organic chemistry, instruction consent; intended for MBS students; Credit will not be granted if credit has been received for BIOC 3021  
Instructor: Roon, Robert J  
Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332.  
Style: 100% Lecture.  
Grading: 75% final exam, 25% final exam.  
Exam Format: Short answer, write structures, multiple choice, solve problems, short essays

BIOC 6021 Biochemistry  
3 credit(s); prerequisite general biology, organic chemistry, instruction consent; intended for MBS students; Credit will not be granted if credit has been received for BIOC 3021  
Instructor: Fuchs, James A  
Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332.  
Style: 100% Lecture.  
Grading: 75% final exam, 25% final exam.

BIOC 8084 Research and Literature Reports  
S-N only, 1 credit(s), max credits 5, 5 repeats allowed; prerequisite Grad BMBB major or instructor consent;  
Instructor: Seeig, Burckhard  
Description: Student may contact the instructor or department for information.

BIOC 8084 Research and Literature Reports  
S-N only, 1 credit(s), max credits 5, 5 repeats allowed; prerequisite Grad BMBB major or instructor consent;  
Instructor: Alhara, Hideki  
Description: Student may contact the instructor or department for information.

BIOC 8184 Graduate Seminar  
S-N only, 1 credit(s), max credits 5, 5 repeats allowed; prerequisite grad BMBB major or DGS consent;  
Instructor: Lange, Alex John  
Description: Student may contact the instructor or department for information.

BIOC 8216 Signal Transduction and Gene Expression  
3 credit(s); prerequisite 8002 or instructor consent;  
Instructor: Kim, Do-Hyung  
Description: The PHCL 8216 is a graduate-level course focused on mechanisms of cellular signal transduction. This course emphasizes intensive discussion in class on focused, selected topics. This year, the theme of the course is "insulin signaling, metabolism, and aging." Except some introductory class as well as some lectures given by invited speakers, the class will discuss topics focused on the theme above. The course will have a couple of class to discuss about the basic principles of signal transduction, briefly introducing several well-characterized cell signaling pathways and important, useful experimental approaches to study signal transduction. The first two weeks will be given for lectures on general introduction on signal transduction. After that, we will discuss several specific topics on cell signaling based on literatures pertaining to the theme above. A general structure is that a lecture will be given for one day for general introduction on a specific cell signaling topic, which will be followed by discussion based on literature that will be assigned by each lecturer. Through employing this structure, the course will help expose students to basic, broad, and current knowledge on cell signaling mechanisms and their impacts on human diseases, and to experimental approaches on cell signaling studies. The course will require each student to submit a two-page concise proposal, and at the end of the course students will present their proposal. We will not have exams, and the grade will be based on the proposal, presentation, and attendance. For further inquiry, please email dhkim@umn.edu

BIOC 8401 Ethics, Public Policy, and Careers in Molecular and Cellular Biology  
S-N only, 1 credit(s), max credits 2; prerequisite Grad student in BMBB or MCDD 8516;  
Instructor: Bernlohr, David Allen  
Description: Student may contact the instructor or department for information.

Bioethics, Center for N-504 Boynton Health Service

BTHX 5000 Topics in Bioethics  
1-4 credit(s), max credits 8; prerequisite Grad student or instructor consent;
**Course Guide at** http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class University of Minnesota - Course Guide for Twin Cities Campus Spring 2009

**BTHX 8900 Advanced Independent Study in Bioethics**
1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: Miles MD,Steven Haverstock
Description: Student may contact the instructor or department for information.

**BTHX 8900 Advanced Independent Study in Bioethics**
1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: Wolf,Susan M
Description: Student may contact the instructor or department for information.

**BTHX 8900 Advanced Independent Study in Bioethics**
1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: Song,John Young
Description: Student may contact the instructor or department for information.

**BTHX 8900 Advanced Independent Study in Bioethics**
1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: Liaschenko,Joan
Description: Student may contact the instructor or department for information.

**BTHX 8900 Advanced Independent Study in Bioethics**
1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: DeBruin PhD,Debra Ann
Description: Student may contact the instructor or department for information.

**BTHX 8900 Advanced Independent Study in Bioethics**
1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: Turner,Leigh
Description: Student may contact the instructor or department for information.

**STAFF**

**BINF 5490 Topics in Bioinformatics**
1-4 credit(s), max credits 12, 6 repeats allowed; S-N only, 1 credit(s), max credits 12, 6 repeats allowed;
Instructor: Ellis, Lynda B
Description: An independent study project class offered by members of the Graduate Faculty in Bioinformatics. Projects, number of credits, and grading system are determined by mutual agreement between the faculty member and student. Not all faculty have time and appropriate projects in any given year.

**BINF 5490 Topics in Bioinformatics**
1-4 credit(s), max credits 12, 6 repeats allowed; S-N only, 1 credit(s), max credits 12, 6 repeats allowed;
Instructor: Ellis, Lynda B
Description: An independent study project class offered by members of the Graduate Faculty in Bioinformatics. Projects, number of credits, and grading system are determined by mutual agreement between the faculty member and student. Not all faculty have time and appropriate projects in any given year.
semesters. Students should check faculty research interests on the BI faculty web page, and contact faculty they are interested in working with individually to check on the availability of instructor and projects, before registering for this class.

**Style:** As arranged  
**Grading:** As arranged

### Biology

**123 Snyder Hall**

**BIOL 1001 Introductory Biology I: Evolutionary and Ecological Perspectives**  
4 credit(s); Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme;  
**Instructor:** STAFF  
**Description:** This course designed specifically for non-CBS majors, covers general evolutionary and ecological principles, emphasizing biological diversity from genetic variation to the diversity of species and ecosystems. Topics include scientific inquiry, history of evolutionary thought, principles of genetics, the nature of variation, ecology of populations, behavioral ecology, human evolution, and genetic, evolutionary and ecological perspectives on issues concerning human diversity, human population growth, health, agriculture and conservation. Laboratory is in a 2-hour block, which is designed to involve students in investigation, problem solving, and discovery.  
**Style:** 65% Lecture, 35% Laboratory.  
**Grading:** 33% mid exam, 25% final exam, 15% reports/papers, 16% quizzes, 4% in-class presentation, 7% problem solving homework.  
**Exam Format:** multiple choice lecture exams

**BIOL 1009 General Biology**  
4 credit(s); prereq high school chemistry; 1 term college chemistry recommended; Credit will not be granted if credit has been received for: BIOL 1099H; Meets CLE req of Biological Sciences/Lab Core;  
**Instructor:** STAFF  
**Description:** This course is designed for non-CBS majors seeking a broad survey of biology. An introduction to the major concepts and principles of modern biology. Topics include: structure and function of biological molecules, cell structure and function, energy recruitment and utilization, cellular reproduction, flow of genetic information through organisms and populations, principles of inheritance, evolution and ecology. Includes lab. Course satisfies the CLE lab distribution requirement in biology. Tutorial aid is available during certain hours each day.  
**Style:** 65% Lecture, 35% Laboratory.  
**Grading:** 34% mid exam, 21% final exam, 10% reports/papers, 25% quizzes, 10% other evaluation. Unannounced lecture quizzes.  
**Exam Format:** multiple choice lecture exams

**BIOL 1099H Honors: General Biology**  
4 credit(s); prereq high school chemistry, honors; one term of college chemistry recommended; Credit will not be granted if credit has been received for: BIOL 1099; Meets CLE req of Biological Sciences/Lab Core;  
**Instructor:** STAFF  
**Description:** An introduction to the major concepts and principles of modern biology. Topics include: structure and function of biological molecules, cell structure and function, energy recruitment and utilization, cellular reproduction, flow of genetic information through organisms and populations, principles of inheritance, evolution and ecology. Includes lab. This course has no prerequisites. Course satisfies the CLE lab distribution requirement in biology in a single semester. Tutorial aid is available during certain hours each day.  
**Style:** 65% Lecture, 35% Laboratory.  
**Grading:** 34% mid exam, 21% final exam, 10% reports/papers, 25% quizzes, 10% other evaluation. Unannounced lecture quizzes.  
**Exam Format:** multiple choice lecture exams

**BIOL 1020 Biology Colloquium**  
S-N only, 1 credit(s), max credits 2;  
**Instructor:** Hanna,Kathryn L  
**Description:** This is a unique class, organized and run by upper division students, recommended for those who wish to explore the various fields and career alternatives in the biological sciences. The class gives students the chance to interact with biology faculty and students with similar interests. The Biology Colloquium offers both large-group seminars, featuring prominent scientists discussing their research programs or other speakers discussing their careers in biology, internship opportunities or health care careers. Small-group tours take you to research facilities on and off campus, such as the Raptor Rehabilitation Center, Cancer Center, Experimental Surgery Services, or behind-the-scenes at the Minnesota Bureau of Criminal Apprehension. Socially, Colloquium students always find time for fun, too, whether on a field trip, studying together in the student lounge, or participating in the optional tours or weekend events. Students may begin the Colloquium class any semester (preferably early in their academic studies) and take it two times. The second semester allows you to conduct a project (see BIOL 1093). This course is also the stepping stone to leadership responsibilities in the Biology Colloquium Program (see BIOL 3600).  
**Style:** 10% Discussion, 50% Field Trips, 40% Guest Speakers. Class time is split between large group sessions and tours to science facilities.  
**Grading:** 50% attendance, 50% reflection paper. Class attendance is required.

**BIOL 1093 Biology Colloquium: Directed Study**  
S-N only, 1 credit(s); prereq 1020 and concurrent enrollment 1020;  
**Instructor:** Hanna,Kathryn L  
**Description:** This course allows students early in their studies to explore various biology disciplines through an independent project or beginning research experience under the supervision of a faculty sponsor. The Biology Colloquium Student Leaders will help you find the biology-related project that fits your interests and allows you to earn University credit as well as try out the world of research. To be eligible, students must have taken one previous Biology Colloquium class (BIOL 1020) and also be concurrently enrolled in the Biology Colloquium (BIOL 1020). Examples of previous projects include: work with anaerobic bacteria, helping with data analysis in the lion project, working on chemical carcinogenesis, fruit fly genetics, liver cell research, monarch butterfly research, and many, many other projects across the University.  
**Style:** Independent project working at least 3 hours per week on project.

**BIOL 1105 Introduction to Biology, Society, and the Environment**  
A-F only, 2 credit(s);  
**Instructor:** Decker,Mark David  
**Description:** Serving as an introduction to the Biology, Society, and Environment major, but open to any interested student, this course uses a case-study approach to examine the social context of biology and the relevance and impact of biology to social and environmental issues. Selected case studies may include, but are not limited to, the teaching of evolution in the K-12 curriculum, the use of human subjects in research, cultural eutrophication, stem cell research, cloning, and genetically-engineered organisms and crops. We will use a mixed teaching format that combines introductory lectures and discussions, guest presentations, analysis of popular media, and student-led discussions, presentations, and debates.

**BIOL 1905 Freshman Seminar for the Biological Sciences:**  
**GENOMICS: Applications in BioMed Sci & BioTech**  
A-F only, 1 credit(s), max credits 6; prereq freshman;  
**Instructor:** Hackett Jr,Perry B  
**Description:** DNA and Genomes are discussed in just about every modern context, from medical science and biotechnology to crime scene investigations, law, insurance policies, and ethics of retooling animal and plant genomes. We will consider
interfaces between science, politics, religion and the press. The seminar will begin with some of the recent findings of science and medicine and then consider some ramifications that you will encounter in your daily lives as genomics plays a larger role as applications develop. Students and visitors will discuss a variety of topics including ethics of selection of humans by their genomes, genetic counseling, CSI in Minnesota, the use of DNA profiling in medicine and insurance, and the future of retooling plant and animal genomes to guide future evolution. We will try to develop personal strategies that will allow us to evaluate current and future controversies on similar topics.

BIOL 2001 Career Planning for Biologists

S-N only, 1 credit(s);
Instructor: Joycechild,Lisa Dewey
Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.
Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Web Based.

BIOL 2001 Career Planning for Biologists

S-N only, 1 credit(s);
Instructor: Mraz,Anna Catherine
Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.
Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Service Learning.

BIOL 2002 Foundations of Biology for Biological Sciences

S-N only, 1 credit(s);
Instructor: Fraasch,Nancy S
Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.
Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Web Based.

BIOL 2002H Foundations of Biology for Biological Sciences Majors, Part I

A-F only, 5 credit(s); prerequisite [CHEM 1021 or equiv], CBS major or instr consent; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002H; Meets CLE req of Biological Sciences/Lab Core;
Instructor: Matthes,David J
Description: BIOL 2002 is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.

BIOL 2002H Foundations of Biology for Biological Sciences Majors, Part II

A-F only, 5 credit(s); prerequisite [CHEM 1021 or equiv], CBS major or instr consent; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002H; Meets CLE req of Biological Sciences/Lab Core;
Instructor: Decker,Mark David
Description: BIOL 2002H is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.

BIOL 2003 Foundations of Biology for Biological Sciences Majors, Part II

A-F only, 3 credit(s); prerequisite [CHEM 1021 or equiv], CBS major or instr consent; concurrent enrollment in BIOL 2004 (must register for 2004 before 2003); [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Brooker,Robert James
Description: BIOL 2003 is intended for majors in the College of Biological Sciences. It is the second of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes ecology and biochemistry within the context of problem solving and application. This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internships, or other venues of active science.

BIOL 2003 Foundations of Biology for Biological Sciences Majors, Part I

A-F only, 3 credit(s); prerequisite [CHEM 1021 or equiv], CBS major or instr consent; concurrent enrollment in BIOL 2004 (must register for 2004 before 2003); [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Brooker,Robert James
Description: BIOL 2003 is intended for majors in the College of Biological Sciences. It is the second of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes ecology and biochemistry within the context of problem solving and application. This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2002 Foundations of Biology for Biological Sciences Majors, Part I

A-F only, 5 credit(s); prerequisite [CHEM 1021 or equiv], CBS major or instr consent; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002H; Meets CLE req of Biological Sciences/Lab Core;
Instructor: Matthes,David J
Description: BIOL 2002 is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.

BIOL 2002H Foundations of Biology for Biological Sciences Majors, Part I

A-F only, 5 credit(s); prerequisite [CHEM 1021 or equiv], CBS major or instr consent; calculus I or equiv recommended; Credit will not be granted if credit has been received for: BIOL 2002H; Meets CLE req of Biological Sciences/Lab Core;
Instructor: Decker,Mark David
Description: BIOL 2002H is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.
BIOL 2005 Animal Diversity Laboratory  
Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

BIOL 2003H Foundations of Biology for Biological Sciences Majors, Part II  
A-F only, 3 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2004 (must register for 2004 before 2003), [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H; Instructor: Wassenberg, Deena Marie  
Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

BIOL 2004H Foundations of Biology for Biological Sciences Majors, Part II  
A-F only, 3 credit(s); prereq [2002 or 2002H, concurrent enrollment in Biol 2004H (must register for 2004H before 2003H), [MATH 1271 or equiv]; honors; Credit will not be granted if credit has been received for: BIOL 2003; Instructor: Brooker, Robert James  
Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

BIOL 3002 Plant Biology: Function  
2 credit(s); prereq [1002 or 1009 or 2003 or equiv], [CHEM 1011 or one semester chemistry with some organic content]; Instructor: Olszewski, Neil E  
Description: You undoubtedly know that humans depend on plants for the oxygen that we breathe, our food and clothes, and for many of us, the houses in which we live. Of course this list can be expanded enormously (consider biofuels, wildlife habitat, the horticultural industry, medicines, etc.). This course examines how plants provide these services by investigating how they develop, grow, reproduce and interact with their environment. While plants may seem like simple organisms, they are in fact incredibly complex. Plants contain genomes that contain at least as many genes as the does the human genome, produce hormones that have profound effects on their growth and development, and obtain their nutrients entirely from the soil and atmosphere, sometimes with the aid of amazing partnerships with bacteria and fungi. Whether you are a student interested in how plants will respond to global climate change, how people can create sustainable agricultural systems, how scientists are using technology to create new crop varieties that are resistant to pathogens and tolerate poor soils and increasing temperatures, or are just interested in learning about the beautiful and fascinating mechanisms by which plants thrive, this course will provide you with a starting point for your future studies.
Style: 95% Lecture, 5% Film/Video.  
Grading: 55% mid exam, 33% final exam, 15% quizzes.  
Exam Format: Exams and quizzes are composed mostly of true/false, multiple choice or short answer questions.
Description: This lab will combine traditional physiological and modern genetic based methodologies to study plant function. Labs designed to addressed questions concerning plant biochemistry, water and mineral transport, and hormone function will be performed. In addition, the students will initiate a scientific study on the effects of gene mutations on light perception by plants. The writing component will be largely based on novel research designed by the students. Required text (lab manual)- Experiments in Plant Physiology by Carol Reiss. Grading: 33% based on lab performance, record keeping and answering of questions concerning laboratory experiments; 33% based on the writing of 4 papers. Three of the papers will concern novel research designed by the students, the fourth will be a lab write up in the format of a published research paper; 33% based on four quizzes (short answer).

Style: 25% Lecture, 75% Discussion.

BIOL 3005W Plant Function Laboratory
2 credit(s); prereq Concurrent enrollment 3002; Meets CLE req of Writing Intensive;
Instructor: Marks,M. David
Description: This lab will combine traditional physiological and modern genetic based methodologies to study plant function. Labs designed to addressed questions concerning plant biochemistry, water and mineral transport, and hormone function will be performed. In addition, the students will initiate a scientific study on the effects of gene mutations on light perception by plants. The writing component will be largely based on novel research designed by the students. Required text (lab manual)- Experiments in Plant Physiology by Carol Reiss. Grading: 33% based on lab performance, record keeping and answering of questions concerning laboratory experiments; 33% based on the writing of 4 papers. Three of the papers will concern novel research designed by the students, the fourth will be a lab write up in the format of a published research paper; 33% based on four quizzes (short answer).

Style: 25% Lecture, 75% Discussion.

BIOL 3211 Animal Physiology
3 credit(s); prereq [1002 or 1009 or 2003 or equiv], CHEM 1021; Concurrent registration is required (or allowed) in 2005 strongly recommended;
Instructor: Palmer,Melissa L
Description: The main objective is understanding how animals carry out a variety of functions (e.g. respiration, movement). We will start by looking at some underlying general principles (e.g. diffusion, membrane voltages) and structures (e.g. membrane receptors) that will be useful in understanding how animals carry out these functions. We will then look at a number of problems faced by animals (e.g. the need for gas exchange) and the various systems animals use to solve these problems (e.g. gills, lungs). We will describe these systems at a variety of levels - organismal, organ, tissue, cellular, and subcellular. There are two main goals of this course. One is to acquaint you with specific physiological systems. The other is to give you an overview that will help you visualize organisms in a way that integrates the various levels of organization. The hope is that, as you are introduced to more detailed descriptions of cellular and subcellular processes in later courses, you will see how these processes fit into the the entire organism.

Style: 100% Lecture.

Grading: 50% final exam, 50% other evaluation. midterm exam (25% each)
Exam Format: multiple choice

BIOL 3408W Ecology
3 credit(s); prereq [One semester college biology], [MATH 1102 or MATH 1281 or equiv]; Credit will not be granted if credit has been received for: EEB 3001; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;
Instructor: Alstad,Donald Norman
Description: Biology 3408W offers an introduction to the growth, regulation, and structure of plant and animal populations; biotic interactions between species and their effects on community diversity and succession; the trophic dynamics of ecosystems; cycling of carbon, nutrients, and energy; and ecological consequences of global change. It includes a series of lectures, and weekly subsection meetings for discussion, laboratory experiments, and computer simulation exercises designed to complement the lecture program and foster understanding of important conceptual issues. Biology 3408W has four principal learning objectives. First, the lecture program and section discussions introduce a wide range of ecological subjects and issues. Second, in lecture, lab experiments and via problem sets, we teach the quantitative and analytical skills required to conceptualize ecological dynamics. Third, because variances associated with measurement, replication, and treatment effects are part of all empirical ecology, we offer practice in spreadsheet data manipulation, descriptive statistics, the analysis of variance, and experimental design. Finally, because all scientists must convey the results of their work, we coach students through preparation and completion of two written lab reports, one on a simple experiment of our design, and one on an experiment that student collaborators design for themselves.

Style: 40% Lecture, discussion, lab, and computer simulation
Grading: 30% mid exam, 25% final exam, 25% reports/papers, 20% other evaluation. Problem Sets
Exam Format: Problems, short essays, multiple choice and true/false

BIOL 3409 Evolution
3 credit(s); prereq One semester college biology; Credit will not be granted if credit has been received for: BIOL 5409;
Instructor: Lanyon,Scott Merrill
Description: This course explores the foundations of evolutionary biology. We will examine the divergence of biological forms through history with an emphasis on presently existing biological diversity. We will investigate the mechanisms of evolution and illustrate them with current research. A primary objective of the course is that students learn evolutionary principles and develop the capability of applying these principles to understand how the biological world has evolved and continues to evolve. The course includes lectures and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (3rd edition, 2003). This text is available in the bookstore and will be on reserve in Magrath (St. Paul Central) Library. The lab manual is also available at the bookstore.

Style: 35% Lecture, 25% Discussion, 40% Laboratory.
Grading: 30% mid exam, 20% final exam, 10% class participation, 20% laboratory evaluation, 20% problem solving.
Exam Format: multiple choice, true/false, short answer, and essay

BIOL 3409 Evolution
3 credit(s); prereq One semester college biology; Credit will not be granted if credit has been received for: BIOL 5409;
Instructor: Tiffin,Peter L
Description: This course explores the foundations of evolutionary biology. We will examine the divergence of biological forms through history with an emphasis on presently existing biological diversity. We will investigate the mechanisms of evolution and illustrate them with current research. A primary objective of the course is that students learn evolutionary principles and develop the capability of applying these principles to understand how the biological world has evolved and continues to evolve. The course includes lectures and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (3rd edition, 2003). This text is available in the bookstore and will be on reserve in Magrath (St. Paul Central) Library. The lab manual is also available at the bookstore.

Style: 35% Lecture, 25% Discussion, 40% Laboratory.
Grading: 30% mid exam, 20% final exam, 10% class participation, 20% laboratory evaluation, 20% problem solving.
Exam Format: multiple choice, true/false, short answer, and essay

BIOL 3411 Introduction to Animal Behavior
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3 credit(s); prerequisite: one semester of college biology. Credit will not be granted if credit has been received for: BIOL 3810.

Instructor: Stephens, David William

Description: This course introduces the biological study of behavior. Although students from all disciplines are welcome, it is one of three core courses for undergraduates majors in EEB. Half of the course is taught in lecture format, and half in the laboratory. The course covers mechanisms in behavior, including behavior genetics, hormonal and neural mechanisms. The course emphasizes an evolutionary approach to behavior, outlining ideas about feeding, social behavior, mating systems, altruism and other contemporary issues in behavioral evolution. The text is John Alcock's, "Animal Behavior: An Evolutionary Approach".

Style: 50% Lecture, 50% Laboratory.

Grading: 25% mid exam, 25% final exam, 50% laboratory evaluation.

Exam Format: Multiple choice, short answer and short essay.

BIOL 3600 Directed Instruction

S-N only, 1-2 credit(s), max credits 6, 6 repeats allowed; prerequisite: 1020, upper div, application, instr consent; up to 4 cr may apply to major.

Instructor: Hanna, Kathryn L

Description: This course allows students to gain experience in organizing, leading and evaluating a small group of students by becoming a Student Leader for the Biology Colloquium class (BIOL 1020). Biology Colloquium Student leaders attend the weekly Biology Colloquium class and Student Leader meetings, set up small-group tours, evaluate student journals and tours, and hold office hours. About 6 hours a week are involved during the semester. Prior to the beginning of the semester, a training/orientation session is required and two Student Leader group meetings are held throughout the semester. To be eligible to be a Student Leader, students need to have been completed two semester of the Biology Colloquium class (BIOL 1020) and be in satisfactory progress within their degree objectives. An application is required and is available at http://biosci.cbs.umn.edu/bcq or from the instructor.

Style: Must attend all class sessions of a BIOL 1020 section.

BIOL 3610 Internship: Professional Experience in Biological Sciences

S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed; prerequisite: Acceptance into CBS Internship Program, internship workshop, college consent.

Instructor: Hanna, Kathryn L

Description: Undergraduate students can earn credit for a structured internship that matches their academic and/or career goals in life science with off-campus learning opportunities. Biological sciences internships in industry, non-profit organizations, and government agencies may be found through the Career Center for Science and Engineering (50 Lind Hall, Minneapolis Campus). Credit number is variable and will be based on time spent on-site and other course requirements. Students must commit to a minimum of 10 hours/week/semester (at least 150 hours). Students will submit a Learning Agreement Form developed in consultation with the on-site internship supervisor and the faculty instructor. Students must meet individually with the instructor in order to register for credit. If a student has questions about a specific internship opportunity, contact the instructor at khanna@umn.edu. Examples of organizations that have hosted internship students include, Hennepin County Medical Center, Minnesota Zoo, MN Bureau of Criminal Apprehension, MN Dept. of Natural Resources, Medtronic, Medtox, Wildlife Rehabilitation Center, and many, many other organizations.

Style: Interns will meet as a group for 3 evening sessions, TBA.

Grading: 100% other evaluation. Students are required to keep a weekly journal and write a final reflective paper. Beyond one credit, students may help select the type of assignments that help them enhance their internship experience. S/N grading only.

BIOL 3700 Undergraduate Seminar

S-N only, 1 credit(s), max credits 3, 3 repeats allowed;

Instructor: Wright, Robin

Description: Student may contact the instructor or department for information.

BIOL 4003 Genetics

3 credit(s); prerequisite: [BIOL 3021 or BIOL 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]] or instr consent; Credit will not be granted if credit has been received for: GCD 3022.

Instructor: Springer, Nathan Michael

Description: This course is a survey of genetics for biology majors. The goal of this course is for students to develop an understanding of the principles of genetics. This includes understanding the transmission of genetic information from one generation to the next, how genetic information is expressed in cells and organisms and how the information within a population can change over time. The course will also discuss the practical applications of genetics and the new methods being used to understand genetic inheritance and genetic control of traits. Topics that will be covered in the course include Mendelian genetics, dominance, epistasis, probability & chi-square, sex chromosomes, nucleic acid & chromosome structure, replication of DNA, linkage, crossing over, gene mapping, recombination in microorganisms, transposable genetic elements, variations in chromosome number and structure, regulation of gene expression, mutation and DNA repair mechanisms, molecular genetics, cloning and sequencing of genes, genomics, the genetics of cancer, the inheritance of complex traits & heritability, and population genetics.

Style: 90% Lecture, 10% Discussion.

Grading: 40% final exam, 10% special projects, 50% additional semester exams.

BIOL 4003 Genetics

3 credit(s); prerequisite: [BIOL 3021 or BIOL 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]] or instr consent; Credit will not be granted if credit has been received for: GCD 3022.

Instructor: Lefebvre, Paul A

Description:

Style: 100% Lecture.

Grading: 65% mid exam, 35% final exam.

Exam Format: Problem solving

BIOL 4003 Genetics

3 credit(s); prerequisite: [BIOL 3021 or BIOL 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]] or instr consent; Credit will not be granted if credit has been received for: GCD 3022.

Instructor: Shaw, Jocelyn E

Description: Student may contact the instructor or department for information.

BIOL 4003 Genetics

3 credit(s); prerequisite: [BIOL 3021 or BIOL 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]] or instr consent; Credit will not be granted if credit has been received for: GCD 3022.

Instructor: Brooker, Robert James

Description: Student may contact the instructor or department for information.

BIOL 4003 Genetics

3 credit(s); prerequisite: [BIOL 3021 or BIOL 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment]] or instr consent; Credit will not be granted if credit has been received for: GCD 3022.
BIOL 4004 Cell Biology
3 credit(s); prereq [3021 or BIOC 3021 or BIOC 4331], [4003 or BIOC 4332];
Instructor: Brooker, Robert James
Description: Student may contact the instructor or department for information.

BIOL 4004 Cell Biology
3 credit(s); prereq [3021 or BIOC 3021 or BIOC 4331], [4003 or BIOC 4332];
Instructor: Silflow, Carolyn D
Description: Processes fundamental to cells emphasizing eukaryotic cells. Assembly and function of membranes and organelles. Cell division, cell form and movement, intercellular communication, transport, and secretion pathways. Some discussion of specialized cells including cancer cells and differentiated cells. This course will be web enhanced. The URL varies with instructor.
Style: 80% Lecture, 20% Discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: multiple choice, short essay

BIOL 5409 Evolution
3 credit(s); prereq One semester of college biology, grad student; Credit will not be granted if credit has been received for: BIOL 3409;
Instructor: Layton, Scott Merrill
Description: This course explores the foundations of evolutionary biology. We will examine the divergence of biological forms through history with an emphasis on presently existing biological diversity. We will investigate the mechanisms of evolution and illustrate them with current research. A primary objective of the course is that students learn evolutionary principles and develop the capability of applying these principles to understand how the biological world has evolved and continues to evolve. The course includes lectures and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (3rd edition, 2003). This text is available in the bookstore and will be on reserve in McGrath (St. Paul Central) Library. The lab manual is also available at the bookstore.
Style: 35% Lecture, 25% Discussion, 40% Laboratory.

BIOL 4950 Special Topics in Biology: Bioinformatic analysis
3 credit(s), max credits 4, 1 repeat allowed;
Instructor: Matthes, David J
Description: This course is an exploration of the emerging field of bioinformatics with a particular emphasis on gaining first-hand experience how bioinformatics tools are used by investigators in biology. By the end of the course you will have acquired a working knowledge of a diverse range of bioinformatic applications and databases, as well as an understanding of how to interpret the data you find or generate by pursuing the characterization of a hypothetical human gene encoding a protein of unknown function. A major objective is for you to be able to confront the unknown and work through uncertainty, pursue new knowledge using a systematic and thorough strategy, and present what you have learned in a highly effective and professional way. While it is not the primary focus of the class, you should finish the course with a significantly more nuanced appreciation of biological macromolecules, information flow, and cell biology. Bioinformatic analysis is the exploration of molecular sequence, structure and function using online tools and databases. In this class we will learn to use some of the most powerful tools available for biologists to investigate the nature of genes and proteins. We will each explore a gene and the protein it encodes that no one before us has studied. We will learn to analyze and integrate the diverse forms of bioinformatic data we obtain. And we will generate and evaluate original hypotheses based on our data that can be tested in the laboratory. This is a hands-on course that will be held almost exclusively in the computer lab. While the class has no exams, it does require the completion of four problem sets and a summative final project over the course of the semester. Note, the course does "not" presume any background in computer programming, or even a particular love of computers, so details of code and algorithms will not be emphasized.
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BiOL 6794 Directed Research
S-N only, 1-7 credit(s); max credits 7, 1 repeat allowed; prereq MBS, instr consent; Instructor: Tranquillo PhD,Robert T
Description: Student may contact the instructor or department for information.

BiOL 6999 Capstone Project
S-N only, 2 credit(s); prereq MBS, instr consent; Instructor: Fuchs,James A
Description: Student may contact the instructor or department for information.

Biomedical Engineering
7-105 Nils Hasselmo Hall

BMEN 1602 Biomedical Engineering Undergraduate Seminar II
1 credit(s); prereq 2601 or dept consent credit will not be granted if credit already received for: 2602; Instructor: Tranquillo PhD,Robert T
Description: Student may contact the instructor or department for information.

BMEN 2101 Biomedical Thermodynamics
A-F only, 3 credit(s); prereq 2501, CHEM 1022, MATH 2373, Concurrent registration is required (or allowed) in MATH 2374; Instructor: Sachs,Jonathan Nathaniel
Description: Student may contact the instructor or department for information.

BMEN 3101 Biomedical Transport Processes
A-F only, 4 credit(s); prereq Math 2374, Phys 1302, [BMEN upper div or dept consent]; Instructor: Tranquillo PhD,Robert T
Description: In terms of subject matter: 1) Learn fundamentals of mass, heat, and momentum transport as applied to biomedical problems 2) Develop laboratory experience illustrating these fundamentals 3) Learn numerical methods required to compute solutions of related equations. In terms of ABET accreditation: a) an ability to apply knowledge of mathematics, science, and engineering b) an ability to design and conduct experiments, as well as to analyze and interpret data c) an ability to design a system, component, or process to meet desired needs d) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice. e) an understanding of biology and physiology, and the capability to apply advanced mathematics (including differential equations and statistics), science, and engineering to solve problems at the interface of engineering and biology. f) the ability to make measurements on and interpret data from living systems, addressing the problems associated with the interaction between living and non-living materials and systems. Style: 60% Lecture, 20% Discussion, 20% Laboratory. Grading: 45% mid exam, 27% final exam, 18% laboratory evaluation, 10% problem solving. Exam Format: short answer and problems

BMEN 3301 Biomaterials
A-F only, 4 credit(s); prereq [Math 2263 or Math 2374], Phys 1302, [BMEN upper div or dept consent]; Instructor: Shen,Wei
Description: Student may contact the instructor or department for information.

BMEN 3401 Biomedical Systems Analysis
A-F only, 4 credit(s); prereq 3101, 3201; Instructor: Netoff,Tay Ivan
Description: BMEN 3401: Biomedical Systems Analysis Designation as a 'Required? or 'Elective? course: Required Course (catalog) description: This course focuses on biomedical signal processing and control theory. It will cover time series and image processing, plant modeling and control theory. A laboratory section will be held every other week. Textbook: TBD Systems: Unit impulse, Step function and Ramp functions Fourier Representation Laplace transform Z-Transform System identification System functions Pole-Zero plots Time series analysis: Reading computer formatted data for analysis Sampling theory FIR and IIR filters Autoregressive models & Moving Average models: ARMA,ARIMA models Power spectrum and short time power spectrum Windowing and multitapers Hilbert transform Tests for stationarity over time Cross correlation and Pre-whitening Principle component analysis Independent component analysis 2-d data analysis: Median, mean and standard deviation filters Feature extraction using dilation, erosion, openings and closings and skeletonizing Feature extraction using independent component analysis Control Theory: Inverse system design Open loop control Closed loop control PID control Stability analysis Robustness analysis Class/lab schedule: Lecture: 3 hours/week. Lab every other week Contribution of course to meeting the professional component: Engineering topics Relationship of course to program outcomes: High: a; Medium: c; Low: k Person who prepared this description and date of preparation: Theoden Netoff, 5/25/07

BMEN 4002W Biomedical Engineering Design II
A-F only, 3 credit(s); prereq 4001W; Meets CLE req of Writing Intensive; Instructor: Habisch,Emily Gwen
Description: Continuation of BMEn 4001W. Students work in teams to design, test, and refine a device prototype. The teams present their work at a design show at the end of the semester. Style: 92% Small Group Activities, 8% Guest Speakers.

BMEN 4710 Directed Research
A-F only, 1-4 credit(s), 1 repeat allowed; prereq instr consent, dept consent; Instructor: Odde,David John
Description: Student may contact the instructor or department for information.

BMEN 4720 Directed Study
A-F only, 1-4 credit(s), 1 repeat allowed; prereq instr consent, dept consent; Instructor: Odde,David John
Description: Student may contact the instructor or department for information.

BMEN 5101 Advanced Bioelectricity and Instrumentation
3 credit(s); prereq [IT upper div, grad student] or instr consent; Instructor: Talkachova,Alena
Description: Student may contact the instructor or department for information.

BMEN 5151 Introduction to BioMEMS and Medical Microdevices
A-F only, 2 credit(s); prereq IT sr or grad student or medical student; Instructor: Saliterman MD,Steven S
Description: "Intro to BioMEMS and Medical Microdevices" is oriented to engineering and health sciences students. It includes the following topics: 1) microfabrication of silicon, glass and polymer materials; 2) microfluidics and electrokinetics; 3) sensors, actuators and drug delivery systems; 4) micro total-analysis systems and lab-on-a-chip devices; 5) introduction to clinical laboratory medicine; 6) detection and measuring systems; 7) genomics, proteomics, DNA and protein microarrays; 8) emerging applications in medicine, research and homeland security; 9) packaging, power systems, data communication and RF safety; and 10) biocompatibility and the ISO 10993 Standard. This course is ideal for senior undergraduate students: graduate students in biomedical, electrical, chemical, or mechanical engineering; materials science; and health related fields including biochemistry, molecular and cellular biology, physiology, genetics, laboratory medicine or medical school. The course content follows Dr. Saliterman's textbook; "Fundamentals of BioMEMS and Medical Microdevices" (SPIE and Wiley
Interscience).
Style: 85% Lecture, 10% Discussion. 5% Tour of the Nanofabrication Center and Characterization Facility
Grading: 40% mid exam, 40% final exam, 10% in-class presentation, 10% class participation.
Exam Format: Essay

BMEN 5212 Tissue Mechanics
A-F only, 2 credit(s); prereq 5201 or AEM 5501;
Instructor: Simha PhD,Narendra K
Description: Student may contact the instructor or department for information.

BMEN 5311 Advanced Biomedical Transport Processes
3-4 credit(s); prereq 2501 or 5501, CSCI 1107, [Math 2243 or Math 2373], [IT upper div or grad student or instr consent ];
Instructor: Habisch,Emily
description: Student may contact the instructor or department for information.

BMEN 5351 Cell Engineering
3 credit(s); prereq [2501 or 5501], CSCI 1107, [Math 2243 or Math 2373], [IT upper div or grad student or instr consent ];
Instructor: Odde,David
Description: Student may contact the instructor or department for information.

BMEN 5421 Introduction to Biomedical Optics
A-F only, 3 credit(s); prereq IT sr or grad student;
Instructor: Akkin,Taner
Description: Student may contact the instructor or department for information.

BMEN 5444 Muscle
3 credit(s);
Instructor: Thomas,David D
Description: Description: Introduction to physiology, biochemical regulation, and physical chemistry of muscle contraction. Prerequisites: undergraduate courses in biochemistry or physiology.
Style: 80% Lecture, 15% Discussion, 5% Laboratory.
Grading: 25% mid exam, 40% final exam, 35% reports/papers.
Exam Format: essay, problem solving

BMEN 5910 Special Topics in Biomedical Engineering: Biomedical Ultrasound
3 credit(s), max credits 6;
Instructor: Ashkenazi,Shai
Description: Description:

BMEN 8402 New Product Design and Business Development
A-F only, 4 credit(s); prereq =ME 8222; 8401; Credit will not be granted if credit has been received for: ME 8222;
Instructor: Durfee,William K
Description: Student may contact the instructor or department for information.

BMEN 8602 Biomedical Engineering Seminar
S-N only, 1 credit(s);
Instructor: Barocas,Victor
Howard Description: Student may contact the instructor or department for information.

BMEN 8900 Special Topics in Biomedical Engineering: Polymeric Biomaterials
A-F only, 1-4 credit(s), max credits 8;
Instructor: Wang,Chun
Description: Student may contact the instructor or department for information.

Biomedical Informatics and Computational Biology

BICB Graduate Program Administration

BICB 8510 Computation and Biology
A-F only, 2 credit(s), max credits 4; prereq BICB grad student or instr consent ;
Instructor: Carlis,John
Description: Student may contact the instructor or department for information.

BICB 8620 Topics in Biomedical Informatics and Computational Biology
0.5-4 credit(s), max credits 24, 6 repeats allowed; prereq BICB grad student, permission of DGS;
Instructor: Neuhauser,Claudia
Description: Student may contact the instructor or department for information.

BICB 8920 BICB Colloquium
S-N only, 1 credit(s), max credits 2; prereq BICB grad student;
Instructor: Neuhauser,Claudia
Description: Student may contact the instructor or department for information.

BICB 8930 BICB Journal Club
S-N only, 1 credit(s), max credits 4, 4 repeats allowed; prereq BICB grad student or instr consent ;
Instructor: Neuhauser,Claudia
Description: Student may contact the instructor or department for information.

BICB 8991 Independent Study
S-N only, 1-2 credit(s), max credits 4; prereq BICB grad major;
Instructor: Neuhauser,Claudia
Description: Student may contact the instructor or department for information.

Biophysical Sciences

B272 Mayo Memorial Building

BPHY 5139 Seminar and Journal Club
S-N only, 1 credit(s), max credits 2;
Instructor: Ritenour,E
Russell
Description: Student may contact the instructor or department for information.

BPHY 5173 Medical and Health Physics of Radiation Therapy
3 credit(s); prereq 5170 or instr consent; Credit will not be granted if credit has been received for: TRAD 7173;
Instructor: Gerbi PhD,Bruce John
Description: Student may contact the instructor or department for information.

BPHY 5174 Medical and Health Physics of Imaging II
3 credit(s); prereq 5170 or instr consent; Credit will not be granted if credit has been received for: TRAD 7174;
Instructor: Ritenour,E
Russell
Description: Student may contact the instructor or department for information.

BPHY 5177 Radiation Therapy Physics Lab: Radiation Physics Basics
A-F only, 3 credit(s); prereq 5170 or Concurrent registration is required (or allowed) in 5173 or instr consent ;
Instructor: Gerbi PhD,Bruce John
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Bioproducts and Biosystems Engineering
203 Kaufert Lab

BBE 1002 Wood and Fiber Science
A-F only, 3 credit(s);
Instructor: Tze, William Tai Yin
Description: The anatomical/cellular structure, physical, mechanical, and chemical properties of wood and other plant biomass. Impact of tree growth and forest management on wood quality, and implications of whole-tree utilization. Measurement and evaluation of wood raw materials. Common processing/conversion technologies for wood materials and other plant fibers, and properties of the resulting lumber, composite, paper, chemical, and energy products. This course is designed for students majoring in bioproducts and forest resources, or students interested in the fundamental science, technology, and utilization of wood and other plant materials.
Style: 85% Lecture. 15% Class activities involving team work to discuss and answer questions on pre-assigned reading
Grading: 25% mid exam, 30% final exam, 20% quizzes, 25% problem solving.
Exam Format: Multiple choice, short answers, calculations

BBE 3033 Material and Energy Balances in Biological Systems
A-F only, 3 credit(s); prereq CHEM 1022, [MATH 1272 or MATH 1372], PHYS 1302;
Instructor: Bhattacharya, Mrinal
Description: The objective of this course is to introduce students to synthesize various processes that are used to convert raw materials to end products. The students learn to quantify industrial processes through material and energy balance, selecting appropriate separation processes and optimizing key process variables. Examples from the bioprocessing and food industry will be used as illustrations.
Style: 60% Lecture, 10% Discussion. Problem solving
Grading: 40% problem solving, 60% other evaluation. 20% for each of the 3 exams

BBE 3093 Directed Studies
1-5 credit(s), max credits 5, 1 repeat allowed; prereq instr consent;
Instructor: STAFF
Description: Independent study of topic(s) involving physical principles as applied to agricultural production and land resources. Contact the department for information.

BBE 3393 Directed Study
1-3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Opportunity to pursue experience not available through independent study or extra credit. In consultation with an advisor students develop a prospectus and complete progress reports and a final report on the project.

BBE 3396 Industrial Internship (Industrial Assignment)
A-F only, 1 credit(s); prereq BBE cooperative ed student;
Instructor: STAFF
Description: Industrial work assignment in forest products cooperative education programs. Evaluation based on formal report written by student at end of each semester of work assignment.

BBE 4013 Transport in Biological Systems
A-F only, 4 credit(s); prereq [3013 or Concurrent registration is required (or allowed) in 3013 or ChEn 3701], CE 3502, [ME 3331 or ChEn 4101], upper div IT;
Instructor: Nieber, John Little
Description: The course involves the application of the principles of thermodynamics, fluid flow, heat transfer and mass transfer to solving of problems involving biological processes and biomaterials at the cellular, organism and system level. Application problems include those related to analysis of biological systems, agricultural production, food processing and bioprocessing, biomaterials design, environmental protection, and natural resources management. After completion students should be able to: 1) Derive constitutive relationships for fluid flow, energy and mass transport in biological systems; 2) Formulate equilibrium thermodynamic relationships for states of thermal energy and mass in biological systems; 3) Formulate the governing equations for fluid flow, energy and mass transport in biological systems; 4) Recognize analytical solutions to well-posed mathematical statements related to fluid flow, and energy and mass transport in biological systems; 5) Understand the fundamentals and applications of discrete methods such as finite differences for solving well-posed mathematical statements related to fluid flow, and energy and mass transport in biological systems; 6) Solve practical problems involving fluid flow, energy and mass transport in biological systems. Fundamentals presented in the lectures and textbook are balanced with practical applications. In addition to homework assignments and exams, students develop designs for two practical problems.
Style: 75% Lecture. 25% Problem Solving
Grading: 20% mid exam, 20% final exam, 30% special projects, 10% laboratory evaluation, 20% problem solving.
Exam Format: Problem solving

BBE 4302 Organisms Impacting Bio-based Products
3 credit(s); prereq 1002 or WPS 1301 or instr consent;
Credit will not be granted if credit has been received for: BBE 5302;
Instructor: Schilling, Jonathan Scott
Description: Class Description: I. 4/5302 Course Rationale: Bioproducts such as wood and wood composites are susceptible to degradation by biological organisms. Smart use and treatment of bioproducts can increase their service life and save money, but this requires familiarity with potential degraders. Understanding biodegradative pathways is also helping researchers develop novel means for processing raw materials and for bioengineering products. II. Course Description: This course explains organisms that modify or deteriorate lignocellulosic bioproducts, covers avoidance and control of these organisms, and explores their potential utilization in biotechnology. This course is required for all undergraduate students in the Department of Bioproducts and Biosystems Engineering.
Style: 75% Lecture, 15% Discussion. Hands on training
Grading: 60% mid exam, 20% final exam, 10% class participation, 10% other evaluation, attendance
Exam Format: 3 midterm exams (multi-format = information comprehension + application)

BBE 4303 Introduction to Bio-based Materials Science
A-F only, 3 credit(s); prereq 3001; Credit will not be granted if credit has been received for: BBE 5303;
Instructor: Severson, Steve John
Description: Student may contact the instructor or department for information.

BBE 4355 Design of Wood Structures
3 credit(s); prereq 3001 or WPS 4301 or CE student or instr consent;
Instructor: Johnson, Kenneth A
Description: This course will cover the design of a wide range of timber structures starting with basic strength of material concepts unique to wood-based products and leading through all the design procedures used in practice today. Design of Wood Structures will now be based on the Load and Resistant Factored Design (LRFD) methodology. This approach to structural design is consistent with the new International Building Code (IBC), the new National Design Specifications for Wood Construction (NDS), and with the Special Design Provisions for Wind and Seismic (SDPWS). LRFD has become the most widely used design ideology for most of the common construction materials. Most of the current building code provisions are based on design calculations in the LRFD format. All of the necessary support documents for the inclusion of wood design to be in the
LRFD format are now in place and widely available. While calculations in the LRFD format will be the primary focus of this course, some design examples will be included in a dual format of Allowable Stress Design (ASD) and LRFD. The use of LRFD for the design of wood components, makes the integration of those wood components into structures utilizing components made of other materials that have been sized using LRFD much more seamless.

BEB 4402 Bio-based Products Engineering Lab I
A-F only, 1 credit(s); prereq CHEM 2301, 302; may not receive credit for: BBE 4402;
Instructor: Tschirner,Ulrike Waltraut
Description: Computer lab is required (or allowed) in 4013, BBE 3033, upper div IT; does not meet Writing Intensive requirement.

BEB 4412W Bio-based Products Manufacturing and Applications II
3 credit(s); prereq 1002, upper div BP; Credit will not be granted if credit has been received for: BBE 5412; Meets CLE req of Writing Intensive;
Instructor: Seavey,Robert Thomas
Description: BBE 4412W Manufacturing and Applications of Bio-based Products II 3 Credits ; Spring Semester 2008 9:35 - 11:30 ; Tu and Th Instructors: Harlan Petersen Bob Seavey 202 Kaufftory Laboratory 30B Kaufftory Laboratory 612/624-3407 612/624-3028 harlan@umn.edu bseavey@umn.edu Text: Forest Products and Wood Science Bowyer Shmulsky and Haygreen
Style: 50% Lecture, 25% Laboratory, 25% Field Trips.
Grading: 30% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation.

BEB 4413 Systems Approach to Residential Construction
3 credit(s); prereq [3411, upper div] or instr consent ;
Instructor: Jami, Kevin A
Description: This course will investigate the dynamic and interrelated issues of energy, moisture control, and indoor air quality in residential buildings. The emphasis is on design, construction, and operational aspects of the house to provide an energy-efficient, durable structure, and a healthy living environment. The course will build skills in the following areas: 1. Fundamentals of heat, air, and moisture transport 2. Strong understanding of psychrometrics 3. how to perform building energy calculations 4. Solid understanding of basic building materials and assemblies 5. Overview of residential mechanical systems 6. Principles for good indoor air quality
Style: 80% Lecture. 20% Discussion.
Grading: 60% mid exam, 10% final exam, 15% special projects, 15% written homework.

BEB 4416 Building Testing and Diagnostics
2 credit(s); prereq 4413W or WPS 4333; Credit will not be granted if credit has been received for: BBE 5416;
Instructor: Huelman,Patrick Henry
Description: This course is intended to be an advanced course. Students are expected to be fully prepared and engaged in the content and its application. Approximately 1/3 of the course will be fairly structured to cover critical content. Another 1/3 will be more loosely organized with guest lecturers to provide a broad array of viewpoints and expertise from a private sector. The final 1/3 will be field visits and/or labs. This course will convert your basic building science knowledge into action (in both a qualitative and quantitative manner) to resolve energy, moisture, and indoor air quality issues in residential buildings.
Style: 50% Lecture, 10% Discussion, 5% Student Presentation, 15% Field Trips, 15% Guest Speakers.
Grading: 40% mid exam, 30% written homework, 30% in-class presentation.

BEB 4491 Senior Topics: Independent Study
1-4 credit(s), max credits 4, 1 repeat allowed; prereq sr, instr consent ;
Instructor: STAFF
Description: Independent study in an area of interest to an undergraduate majoring in one of the fields within the College of Food, Agricultural and Natural Resource Sciences.

BEB 4502W Bee Hive Design
A-F only, 4 credit(s); prereq [2113 or 4501], sr; Meets CLE req of Writing Intensive;
Instructor: Nieber,John Little
Description: Course is intended to be an advanced course. Students are expected to be fully prepared and engaged in the content and its application. The course is fairy structured to cover critical content. Another 1/3 will be more loosely organized with guest lecturers to provide a broad array of viewpoints and expertise from a private sector. The final 1/3 will be field visits and/or labs. This course will convert your basic building science knowledge into action (in both a qualitative and quantitative manner) to resolve energy, moisture, and indoor air quality issues in residential buildings.
Style: 50% Lecture, 10% Discussion, 5% Student Presentation, 15% Field Trips, 15% Guest Speakers.
Grading: 40% mid exam, 30% written homework, 30% in-class presentation.

BEB 4504W Bio-based Products Development and Management
A-F only, 3 credit(s); prereq Jr or sr or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Smith,Tim
Description: Course is intended to be an advanced course. Students are expected to be fully prepared and engaged in the content and its application. The course is fairy structured to cover critical content. Another 1/3 will be more loosely organized with guest lecturers to provide a broad array of viewpoints and expertise from a private sector. The final 1/3 will be field visits and/or labs. This course will convert your basic building science knowledge into action (in both a qualitative and quantitative manner) to resolve energy, moisture, and indoor air quality issues in residential buildings.
Style: 50% Lecture, 25% Laboratory, 25% Field Trips.
Grading: 30% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation.

BEB 4523 Water Management Engineering
A-F only, 3 credit(s); prereq 3023 or CE 3301, CE 3502, upper div IT;
Instructor: Nieber,John Little
Description: Course is intended to be an advanced course. Students are expected to be fully prepared and engaged in the content and its application. The course is fairy structured to cover critical content. Another 1/3 will be more loosely organized with guest lecturers to provide a broad array of viewpoints and expertise from a private sector. The final 1/3 will be field visits and/or labs. This course will convert your basic building science knowledge into action (in both a qualitative and quantitative manner) to resolve energy, moisture, and indoor air quality issues in residential buildings.
Style: 50% Lecture, 25% Laboratory, 25% Field Trips.
Grading: 30% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation.

BEB 4713 Biological Process Engineering
A-F only, 3 credit(s); prereq [4013 or Concurrent registration is required (or allowed) in 4013], BBE 3033, upper div IT;
Instructor: Zhi,Jun
Description: Principles of biproduct engineering including material balance, energy balance, homogeneous reactions,
fermentation and reactors, and unit operations such as filtration, centrifugation, separation, absorption, extraction, and chromatography will be covered. Applications of these bioprocess engineering principles in various biological systems, biorefining, and conversion of biomass into energy, biochemicals, and biomaterials will also be discussed.

**Style:** 80% Lecture, 20% Discussion.
**Grading:** 30% mid exam, 25% final exam, 15% reports/papers, 30% problem solving.
**Exam Format:** Multiple choice, short problems

### BBE 4733 Renewable Energy Technologies

**A-F only, 3 credit(s); prereq 4013 or equiv or instr consent ;
Instructor:** Morey, R Vance
**Description:** Student may contact the instructor or department for information.

### BBE 4801H Honors Research

**A-F only, 2 credit(s); prereq BP upper div honors;
Instructor:** STAFF
**Description:** First semester of independent research project supervised by faculty member.

### BBE 4900 Intern Reports

**S-N only, 2 credit(s), max credits 4; prereq IT or COAFES student in BAE, insr consent ;
Instructor:** Janni, Kevin A
**Description:** Student exposure to engineering practice through an intern program. Periodic reports on work assignments are reviewed by faculty and coordinated with industry advisors.

### BBE 5095 Special Problems

**1-5 credit(s), max credits 5, 1 repeat allowed; prereq instr consent ;
Instructor:** STAFF
**Description:** Advanced individual-study project. Application of engineering principles to specific problem. Student may contact the instructor or department for information.

### BBE 5202 Wood and Fiber Science

**A-F only, 3 credit(s);**
**Instructor:** Tze, William Tai Yin
**Description:** The anatomical/cellular structure, physical, mechanical, and chemical properties of wood and other plant biomass. Impact of tree growth and forest management on wood quality, and implications of whole-tree utilization. Measurement and evaluation of wood raw materials. Common processing/conversion technologies for wood materials and other plant fibers, and properties of the resulting lumber, composite, paper, chemical, and energy products. This course is designed for students majoring in bioproducts and forest resources, or students interested in the fundamental science, technology, and utilization of wood and other plant materials.

**Style:** 85% Lecture. 15% Class activities involving team work to discuss and answer questions on pre-assigned reading.
**Grading:** 25% mid exam, 30% final exam, 20% quizzes, 25% problem solving.
**Exam Format:** Multiple choice, short answers, calculations

### BBE 5302 Organisms Impacting Bio-based Products

**3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4302;
Instructor:** Schilling, Jonathan Seaver
**Description:** Class Description: 1. 4/5302 Course Rationale: Bioproducts such as wood and wood composites are susceptible to degradation by biological organisms. Smart use and treatment of bioproducts can increase their service life and save money, but this requires familiarity with potential degraders. Understanding biodegradative pathways is also helping researchers develop novel means for processing raw materials and for bioengineering products. II. Course Description: This course explains organisms that modify or deteriorate lignocellulosic bioproducts, covers avoidance and control of these organisms, and explores their potential utilization in biotechnology. This course is required for all undergraduate students in the Department of Bioproducts and Biosystems

### BBE 5303 Introduction to Bio-based Materials Science

**3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4203;
Instructor:** Severson, Steve John
**Description:** Student may contact the instructor or department for information.

### BBE 5402 Bio-based Products Engineering Lab I

**A-F only, 1 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4402;
Instructor:** Tschirner, Ulrike Walltrau
**Description:** Student may contact the instructor or department for information.

### BBE 5412 Manufacturing and Applications of Bio-based Products

**4 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4412W;
Instructor:** Seavey, Robert Thomas

### BBE 5413 Manufacturing and Applications of Bio-based Products II

**3 Credits; Spring Semester 2009 9:35 - 11:30; Tu and Th Instructors: Harlan Petersen Bob Seavey 202 Kaufert Laboratory 30B Kaufert Laboratory 612/624-3407 612/624-3028 harlan@umn.edu bseavey@umn.edu Text: Forest Products and Wood Science Bowyer Shmulsky and Haygreen Course Objectives: By completing this course students should be able to:

1. **Graduation:**

   - 80% Mid exam, 20% Final exam, 10% other evaluation. attendance

2. **Grading:**

   - 75% Lecture. 15% Discussion. Hands on training

3. **Exam Format:**

   - 3 midterm exams (multi-format = information comprehension + application)
BBE 5413 A Systems Approach to Residential Construction
3 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: WPS 4333;
Instructor: Janni, Kevin A
Description: Student may contact the instructor or department for information.

BBE 5416 Building Testing & Diagnostics
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 4416;
Instructor: Huelman, Patrick Henry
Description: This course is intended to be an advanced course. Students are expected to be fully prepared and engaged in the content and its application. Approximately 1/3 of the course will be fairly structured to cover critical content. Another 1/3 will be more loosely organized with guest lecturers to provide a broad array of viewpoints and expertise from a private sector. The final 1/3 will be field visits and/or labs. This course will convert your basic building science knowledge into action (in both a qualitative and quantitative manner) to resolve energy, moisture, and indoor air quality issues in residential buildings.
Style: 50% Lecture, 10% Discussion, 5% Student Presentation, 15% Field Trips, 20% Guest Speakers.
Grading: 40% mid exam, 30% written homework, 30% in-class presentation. For graduate credit, final project includes additional research, synthesis, and presentation.

BBE 5480 Special Topics: Off-road Vehicle Design
3-4 credit(s), max credits 12, 3 repeats allowed; prereq Sr or grad student; Credit will not be granted if credit has been received for: BBE 3480;
Instructor: Chaplin, Jonathan
Description: This course is intended to provide engineering students with a background in the design of off-road vehicles.
Off-road vehicles include SUVs, tractors, construction equipment, ATVs and motorcycles. The course covers the development of off-road vehicles, engine performance, vehicle testing, electrical and electronic systems, vehicle traction, suspension, and safety and human factors. During the course the students are encouraged to become involved in a national engineering design competition in which a vehicle is designed, constructed and tested. The evaluation includes manufacturability, engineering safety, serviceability, and performance criteria including traction performance and maneuverability. The idea is to create learning communities within the class that will work on multiple aspects of an off-road vehicle design.
Style: 80% Lecture, 20% Small Group Activities.
Grading: 20% mid exam, 25% final exam, 10% reports/papers, 20% special projects, 10% quizzes, 15% written homework.

BBE 5504 Bio-based Products Development and Management
A-F only, 3 credit(s); prereq Grad student or instr consent ;
Instructor: Smith, Tim
Description: Student may contact the instructor or department for information.

BBE 6094 Advanced Problems and Research
2-6 credit(s), max credits 6, 1 repeat allowed; prereq 5095;
Instructor: Nieber, John Little
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Sarkanen, Simo
Description: Student may contact the instructor or department for information.
BA 999 Immersion Core  
A-F only, 12 credit(s); prereq ACCT 2050, OMS 2550, Carlson School [soph or jr];  
Instructor: Buchanan, Thomas Wayne  
Description: Student may contact the instructor or department for information.

BA 999 Immersion Core  
A-F only, 12 credit(s); prereq ACCT 2050, OMS 2550, Carlson School [soph or jr];  
Instructor: Nelson, Rick  
Description: Student may contact the instructor or department for information.

BA 999 Immersion Core  
A-F only, 12 credit(s); prereq ACCT 2050, OMS 2550, Carlson School [soph or jr];  
Instructor: Nelson, Elaine W  
Description: Student may contact the instructor or department for information.

BA 1905 Freshman Seminar: Internet Search Economics, Google, and New Business  
A-F only, 2 credit(s), max credits 6; prereq Fr;  
Instructor: Connor, Robert Alan  
Description: Internet Search Economics, Google, and New Business Opportunities—This course will actively engage students in analysis and extensive discussion of key organizations and topics related to internet search (broadly defined). Although there are many organizations related to internet search, the main ones on which this course will focus are Google, Microsoft, and Wikipedia. Topic areas include: traditional search engines; access through browsers/phones; online advertising revenue models; social networks and generated content; Wikipedia and generated content; non-text media such as video; and legal issues. Assignments include analyses of Google, Microsoft and Wikipedia; and a proposal for an original internet-based business. Guest session by co-founder of YouTube.

BA 1910W Freshman Seminar, Wi: Pop Culture & the Evil Empire  
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq freshman; Meets CLE req of Writing Intensive;  
Instructor: Littlefield, Holly A  
Description: Popular Culture and the Evil Empire: Business and the Media For decades Hollywood films and the popular media have portrayed corporate America as the enemy-a decadent, heartless entity that values profits over people. Investigative reporters in the early Twentieth Century turned out scathing exposés of businesses abusing workers, customers, and the environment. Popular books and films like Wall Street, The Insider, and Roger and Me depicted the business world in unflattering terms. In response, corporations have employed increasingly sophisticated public relations campaigns to control public perception of their businesses. Additionally media conglomerations has also provided some businesses with the method to more tightly control what gets said or reported about them in the media. This discussion-based course will look at the ways that corporations, business executives, workers, and entrepreneurs are portrayed in popular culture and at the ways that the media covers business issues. We will consider how this image has developed over time and look at the archetypes of the business world from Horatio Alger to the Corporate Rader.

BA 3000 Career Skills  
S-N only, 1 credit(s); prereq CSOM soph or upper div major;  
Instructor: Sullivan, Mackenzie  
Description: Required for all Carlson School students, this course focuses on career discovery and tactical preparation for the internship and career searches. In this course you will: 1. Clarify personal interests, values, skills and abilities and learn the importance of self-assessment and self-awareness in identifying career options. 2. Develop professional resumes, cover letters and correspondence. 3. Develop a contact network and understand how to engage your network in the career planning process. 4. Understand and utilize professional business etiquette. 5. Research organizations to better prepare for interviews and company interactions, as well as to determine your best organizational “fit.” 6. Interview effectively, with specific emphasis on how to convey your background, skills, career goals and the value you bring to an organization. 7. Access internship, part-time and full-time employment opportunities. 8. Understand employment trends and their effect on career options. 9. Develop an overall career search strategy We advise all students to take this course during the sophomore year, ideally during the fall semester.

BA 3000 Career Skills  
S-N only, 1 credit(s); prereq CSOM soph or upper div major;  
Instructor: Opalis, Brent S  
Description: Required for all Carlson School students, this course focuses on career discovery and tactical preparation for the internship and career searches. In this course you will: 1. Clarify personal interests, values, skills and abilities and learn the importance of self-assessment and self-awareness in identifying career options. 2. Develop professional resumes, cover letters and correspondence. 3. Develop a contact network and understand how to engage your network in the career planning process. 4. Understand and utilize professional business etiquette. 5. Research organizations to better prepare for interviews and company interactions, as well as to determine your best organizational “fit.” 6. Interview effectively, with specific emphasis on how to convey your background, skills, career goals and the value you bring to an organization. 7. Access internship, part-time and full-time employment opportunities. 8. Understand employment trends and their effect on career options. 9. Develop an overall career search strategy We advise all students to take this course during the sophomore year, ideally during the fall semester.

BA 3000 Career Skills  
S-N only, 1 credit(s); prereq CSOM soph or upper div major;  
Instructor: Bartels, Christiane A  
Description: This required course is designed to prepare undergraduate students for 1) the career search process, 2) to use the Carlson School of Management Career Services Center and 3) to use the on-line recruiting system, C.A.R.S. (Carlson Automated Recruiting System). Topics include the importance of self-awareness and values assessment in identifying career options; how to access and use information related to career planning and jobs; networking; resume preparation, cover letters and correspondence; interviewing skills; professional etiquette and image in the work setting; employment trends; goal setting; and overall career strategy planning. The course is coordinated by the Business Career Center at the Carlson School and will utilize a variety of teaching techniques, with significant emphasis on classroom activities. Homework assignments will focus on helping students develop skills and strategies necessary for internship and full-time job searches. The perspective of the course is that critical elements of career development and growth include self-understanding, skill development and usage, awareness of career options, decision-making, and evaluation.

BA 3200H Securian Foundation Leadership Colloquium  
A-F only, 2 credit(s); prereq Honors;  
Instructor: Opalis, Brent S  
Description: The focus of this two-credit course is an in-depth examination of leadership behaviors as well as individual skills, abilities, personality, attitudes, values to increase self-awareness of leadership competencies. Students will examine leadership behaviors through the course texts, classroom discussion, peer presentations, and guest speakers to develop insights for their personalized leadership development.

BA 3900 Topics: International Business Communication
### Business Law

**Course:** BLAW 3058 The Law of Contracts and Agency  
-A-F only, 4 credit(s); prerequisite 40 or more credits;  
**Instructor:** Calliendo, Charles Michael  
**Description:** Student may contact the instructor or department for information.

**Course:** BLAW 3058 The Law of Contracts and Agency  
-A-F only, 4 credit(s); prerequisite 40 or more credits;  
**Instructor:** Campbell, Donald G  
**Description:** Student may contact the instructor or department for information.

### Course Guide at http://onestop.umn.edu

**IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule.
BIE 5001 Teaching Marketing Promotion
A-F only, 3 credit(s);
Instructor: Marinovich, John
Description: Student may contact the instructor or department for information.

BIE 5011 Introduction to Computer Applications
3 credit(s);
Instructor: Pozanc, Erica A
Description: Student may contact the instructor or department for information.

BIE 5011 Introduction to Computer Applications
3 credit(s);
Instructor: Borup, Tracey Littlefield
Description: Student may contact the instructor or department for information.

BIE 5012 Advanced Word Processing
3 credit(s); prerequisite 5011 or equivalent;
Instructor: Horazdovsky, Jerry Edwa
Description: Student may contact the instructor or department for information.

BIE 5013 Spreadsheet Analysis Using Computers
3 credit(s); prerequisite 5011 or equivalent;
Instructor: Lambrecht, Judith J.
Description: Student may contact the instructor or department for information.

BIE 5014 Database Computer Applications
3 credit(s); prerequisite 5011 or equivalent;
Instructor: Cherry, Jennifer E
Description: Student may contact the instructor or department for information.

BIE 5015 Integrated Computer Applications in Business and Marketing Education
3 credit(s); prerequisite [5011, 5012, 5013, 5014] or equivalent;
Instructor: Anderson, Michelle M
Description: This course is intended to engage advanced students in the use of realistic business microcomputer problems requiring the integration of two or more application packages. While completing these problems, consideration will be given to the pedagogical issues of both learning advanced microcomputer application capabilities, and teaching similar applications to designated groups of learners.
Style: 25% Lecture, 75% Laboratory.
Grading: 15% mid exam, 15% final exam, 10% in-class presentation, 10% class participation, 50% laboratory evaluation.
Exam Format: Computer problem-solving

BIE 5016 Web Development in Business
A-F only, 3 credit(s); prerequisite [5011 or equivalent], CI 5362;
Instructor: Prasnicki, Brandon L
Description: Student may contact the instructor or department for information.

BIE 5017 Technological Problem Solving
A-F only, 3 credit(s); prerequisite 3111, 3112, 3121, 3122;
Instructor: Nehring, Michael Kenneth
Description: Capstone technology education course in which students research problems relative to various technological systems and develop solution(s) to the identified problems.

BIE 5018 Technical Development: Specialized
A-F only, 1-12 credit(s), max credits 12, 12 repeats allowed; prerequisite instructor consent;
Instructor: Stertz, Tom
Description: Students select and study technical processes and principles based on the particular subject matter areas they plan to teach. Experiences allow students to integrate specialized technical instruction in advanced and emerging areas.

BIE 5344 Facilities Management in Business and Industry
A-F only, 3 credit(s); prerequisite 3112;
Instructor: Nehring, Michael Kenneth
Description: Student may contact the instructor or department for information.

BIE 5364 Technical Development: Specialized
A-F only, 3 credit(s); prerequisite 3112;
Instructor: Stertz, Tom
Description: Student may contact the instructor or department for information.

BIE 5365 Curriculum Development in Technology Education
3 credit(s);
Instructor: Austin, Chandra Yvette
Description: Student may contact the instructor or department for information.

BIE 5457 Methods of Teaching Business Employment and Marketing Employment
A-F only, 3 credit(s);
Instructor: Horazdovsky, Jerry Edwa
Description: Student may contact the instructor or department for information.

BIE 5463 Methods in Teaching Keyboarding and Word Processing
A-F only, 2 credit(s);
Instructor: Cherry, Jennifer E
Description: Style: 25% Lecture, 25% Discussion, 25% Small Group Activities, 10% Student Presentation, 5% Demonstration, 10% Guest Speakers.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 20% in-class presentation.

BIE 5596 Occupational Experience in Business and Industry
S-N only, 1-10 credit(s), max credits 10, 1 repeat allowed; prerequisite instructor consent;
Instructor: Stertz, Tom
Description: Observation and employment in business and industry to develop technical or occupational competencies; 100 clock hours of supervised work experience per credit.

BIE 5596 Occupational Experience in Business and Industry
S-N only, 1-8 credit(s), max credits 12, 12 repeats allowed; prerequisite instructor consent;
Instructor: Lambrecht, Judith J.
Description: Observation and employment in business and industry to develop technical or occupational competencies; 100 clock hours of supervised work experience per credit.

BIE 5597 Internship: Business and Industry Education
S-N only, 1-8 credit(s), max credits 12, 12 repeats allowed; prerequisite instructor consent;
Instructor: Anderson, Orkideh Mohajeri
Description: Student may contact the instructor or department for information.

BIE 5605 Critical Issues in Business and Industry
3 credit(s);
Instructor: Lambrecht, Judith J.
Description: Student may contact the instructor or department for information.

BIE 5796 Field Based Projects in Business and Industry
S-N only, 1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Stertz, Tom
Description: Student may contact the instructor or department for information.

BIE 5993 Directed Study in Business and Industry
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Stertz, Tom
Description: Student may contact the instructor or department for information.

BIE 8995 Research Problems: Business and Industry
S-N only, 3-6 credit(s), max credits 6, 1 repeat allowed; prerequisite Adviser approval;
Instructor: Stertz, Tom
Description: Student may contact the instructor or department for information.
Carlson Executive MBA
2-210 CarlsMgmt

CMBA 5543 Business Law
A-F only, 3 credit(s); Instructor: Adams, Edward Scott
Description: Student may contact the instructor or department for information.

CMBA 5544 International Business
A-F only, 3 credit(s); Instructor: Madzar, Svjetlana
Description: Student may contact the instructor or department for information.

CMBA 5551 Strategic Marketing
A-F only, 3 credit(s); Instructor: Rao, Akshay R
Description: Student may contact the instructor or department for information.

CMBA 5554 International Residency
S-N only, 1.5 credit(s); Instructor: Joyce, Edward J
Description: Student may contact the instructor or department for information.

CMBS 5621 Financial Management
A-F only, 3 credit(s); Instructor: Gahlon, James M
Description: Student may contact the instructor or department for information.

CMBA 5622 Economics
A-F only, 3 credit(s); Instructor: Boyd, John H
Description: Student may contact the instructor or department for information.

CMBA 5623 Marketing Management
A-F only, 3 credit(s); Instructor: Roering, Kenneth J
Description: Student may contact the instructor or department for information.

CMBA 5624 Business Strategy
A-F only, 3 credit(s); Instructor: Zaheer, Aks
Description: Student may contact the instructor or department for information.

CSPH 1001 Principles of Holistic Health and Healing
2 credit(s); Instructor: Brady, Linda J
Description: This course focuses on how individuals and society can work for a balanced life to achieve optimal health. Topics include: 1. what is health and well being? 2. cultural constructs of health and well being; 3. fundamental principles and proven measures of holistic health that promote health and well being; 4. holistic health theory and how holistic health is incorporated into the healthcare delivery system; 5. practical application and integration of holistic health into daily personal life for optimal health and well-being. Class will be interactive and students will reflect on the application of the principles to their daily lives as journaling assignments each week; a key component of class is understanding how we can be more balanced as students in US society. The text will be Integral Healing by Elliott Dacher, 2006; additional readings will be from the CSPH website modules and other websites.
Style: 50% Lecture, 50% Discussion. Most classes will present information and students will discuss/reflect on it in class groups
Grading: 85% written homework, 15% reflection paper. Final journal reflection is a paper discussing key learnings of the semester.
Exam Format: No exams.

CSPH 5101 Self, Society, and Environment: An Integral Systems Approach to Personal Wellbeing and Engagement
3 credit(s); Instructor: Brady, Linda J
Description: Through the lenses of various world views, including complexity theory, students will study the internal and external systems which influence their lives and health. They will examine the interrelated workings of mind and body and explore a variety of means of bringing these into dynamic balance. Students will examine the variety of environmental and social systems in which they participate, once again combining theory, experience, and reflection to explore the optimal functioning of these systems, for individuals and the collective whole. In addition to applying their learning within the realm of personal wellbeing, students will learn to be social entrepreneurs, bringing health and balance to the social and environmental systems in which they participate. Finally, students will explore the implications of Albert Schweitzer's ethic of Reverence for Life as a guide for human relationships with the natural world.
Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.
Grading: 50% written homework, 25% journal, 15% reflection paper, 10% class participation. Class format will be to prepare via written assignments, discuss in small and large groups, then send in homework based on both reading and class discussion for the week.

CSPH 5201 Introduction to Mindfulness-Based Stress Reduction
2 credit(s); Instructor: Storie, Erik Fraser
Description: The class will introduce students to a variety of techniques by which the stress endemic in a fast-paced competitive culture can be both reduced, as well as worked with constructively. Students will engage in both experiential and intellectual learning. They will practice and apply techniques of stress-reduction through "mindfulness" - the steady, intentional gathering of a non-judgmental awareness into the present moment in various activities. They will also think critically as they study and evaluate recent medical-scientific literature on the physiological and psychological elements in the stress response.

CSPH 5000 Explorations in Complementary Therapies and Healing Practices: Healing Imagery I
2 credit(s), max credits 12, 4 repeats allowed; prereq Jr or sr or grad student or instr consent; Instructor: Heiderscheit, Annette Lynne
Description: Student may contact the instructor or department for information.

CSPH 5000 Explorations in Complementary Therapies and Healing Practices: Drugs, Culture & Society
3 credit(s), max credits 12, 4 repeats allowed; prereq Jr or sr or grad student or instr consent; Instructor: McKenna PhD, Dennis Jon
Description: Student may contact the instructor or department for information.

CSPH 5101 Introduction to Complementary Healing Practices
3 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Culliton, Patricia D
Description: Student may contact the instructor or department for information.
CSPH 5102 Art of Healing: Self as Healer
1 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Towey, Sue Mary
Description: The initiation of a healer in ancient cultures was a rigorous process that included a personal journey of inner development and transformation that paralleled the learning of the cognitive and physical healing techniques. This course will introduce the health science student to the concept of the individual transformational journey. The science of psychoneuroimmunology (PNI) and mind-body-spirit approaches will be explored through a variety of methods including lecture, scientific literature review, meditation, imagery, journal writing and social support through group interaction. The students will have an opportunity to explore various aspects of self-knowledge, self-awareness, transpersonal (non-local) experiences and the paradoxical mysteries that will prepare them for their student and personal lives.

CSPH 5102 Art of Healing: Self as Healer
1 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Gorman, Rebecca Sue
Description: Student may contact the instructor or department for information.

CSPH 5115 Cultural Knowledge, Health, and Contemporary Cultural Communities
3 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Brady, Linda J
Description: The central goal of this course is that students understand how their personal cultural experience affects their view of health, illness, and healing and how this impacts professional practice. Students will learn in a setting of contact with the wisdom of cultural communities based on a curriculum developed and field tested at the Powderhorn Phillips Cultural Wellness Center. We will explore the cultural construct underpinning the medical system, the role of culture in the interaction between practitioner and patient, and the role of the reconnection to cultural heritage in healing.
Style: 20% Lecture, 60% Discussion, 20% Student Presentation. Given off campus at Powderhorn Phillips Cultural Wellness Center in S. Mpls.
Grading: 20% reports/papers, 30% written homework, 50% class participation. Students submit critical reflections on class materials during the semester; most classes are discussion with lots of student input expectation, two presentations by each student on selected topics of culture and health

CSPH 5201 Spirituality and Resilience
2 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Marshall, Kathy M
Description: In-depth exploration of resilience, spirituality, and the link between them. Specific applications of the resilience/health realization model to students' personal and professional lives. Relevant literature, theory and research will be explored.

CSPH 5215 Forgiveness and Healing: A Journey Toward Wholeness
3 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Umbreit, Mark S
Description: This course will examine the impact of forgiveness on the process of inter-personal and intra-personal healing, as well as healing of conflict and trauma at the intergroup level. Forgiveness and healing will be examined in the context of intense interpersonal and intrapersonal conflicts in multiple health care and social work settings, including in families, between physicians and nurses, between patients/clients and nurses/social workers, within communities, among friends, between co-workers or within ourselves. This course is designed to provide a basic understanding of the central elements of forgiveness and healing in the context of multiple health care and social work settings. The concepts of forgiveness and healing will be examined from multiple spiritual and secular traditions. The underlying philosophical elements of forgiveness and healing will be critically assessed and beliefs and rituals from numerous indigenous and European traditions will be presented and examined. The focus will be upon gaining a more grounded understanding of the process of forgiveness and its potential impact upon emotional and relational healing. The concepts of forgiveness and healing will be addressed in a very broad and inclusive manner, with no assumptions made related to their specific cultural context or meaning. Empirical studies that have examined the impact of forgiveness upon emotional and physical healing will be reviewed.

CSPH 5226 Advanced Meditation: Body, Brain, Mind, and Universe
1 credit(s); prereq [5225, [Jr or sr or grad student]] or instr consent; Instructor: Storie, Erik Fraser
Description: Students will work to integrate meditation practice into daily life, cultivating awareness of the fundamental oneness of body, brain, mind, and universe. Attention will be given to mind-body interactions in health, the "hard problem" of consciousness in brain science, and the emergence of compassion, wisdom, and healing in non-discursive awareness.

CSPH 5301 Cultures, Faith Traditions, and Health Care
A-F only, 2 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Berg, David F
Description: This course, which is open to all AHC students and seminarians, examines the cultural and spiritual implications of health care practices of selected native and immigrant populations in Minnesota. The course focuses on the clinical implications of these practices and addresses the inherent personal and professional conflicts for delivery of competent care to culturally/spiritually diverse groups by those trained in the Western health care system. This course requires students to meet with and participate as much as possible with another culture.

CSPH 5311 Introduction to Traditional Chinese Medicine
A-F only, 2 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Hafer, Christopher Jam
Description: Student may contact the instructor or department for information.

CSPH 5431 Functional Nutrition: An Expanded View of Nutrition, Chronic Disease, and Optimal Health
2 credit(s); prereq [Jr or sr or grad student] in Health Sciences or instr consent; Instructor: Denton, Carolyn Ward
Description: This course will present a novel approach to the principles of nutrition as they relate to optimal health and the prevention, control or intervention in a disease process. This is a model of nutrition application that complements and expands beyond normal growth and development, an approach that attempts to reduce chronic disease by looking for underlying factors or triggers of disease. This model of nutrition considers system dysfunction a pre-disease state and looks for ways to apply nutrition and restore function. The purpose of the course is to provide an overview of this novel application of nutrition. The course will emphasize the importance of nutrition as a component of self-care.
Grading: 25% final exam, 40% reports/papers, 10% in-class presentation, 25% other evaluation. Self assessment and written nutritional intervention

CSPH 5511 Interdisciplinary Palliative Care: An Experiential Course in a Community Setting
2 credit(s); prereq instr consent; Instructor: STAFF
Description: Multidisciplinary teams of course participants will partner with interdisciplinary community hospice teams. They will participate in the delivery of care to patients in a variety of settings. This course will also include a series of seminars, employing self-analysis and case studies to further the participants’ appreciation of and expertise in palliative care.

CSPH 5521 Therapeutic Landscapes
3 credit(s); prereq Jr or sr or grad student] in [health sciences or therapeutic recreation or horticulture or landscape architecture] or health professional or instr consent:
Instructor: Larson, Jean Marie

Description: This course is to help students build a theoretical foundation for healing environments and their application to Complementary Alternative Medicine (CAM). This course is offered only through the Center for Spirituality and Healing but carries a wide interdisciplinary application into the departments of horticulture, landscape architecture, interior design, therapeutic recreation, and the health sciences.

Style: 50% Lecture, 25% Discussion, small group work

Grading: 25% mid exam, 50% reports/papers, 25% in-class presentation.

CSPH 5535 Reiki Healing
S-N only, 1 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Ringdahl, Deborah Rene

Description: Students will learn the history, principles, precepts, and practical application of Reiki energy healing. Alternative energy healing modalities and current research findings will be discussed. Following activation of the Reiki energy, participants will learn the hand positions used to perform a treatment. A portion of each class meeting will be used to provide Reiki treatments and to discuss findings.

CSPH 5536 Advanced Reiki Healing: Level II
S-N only, 1 credit(s); prereq 5535, instr consent;
Instructor: Ringdahl, Deborah Rene

Description: Students will learn advanced principles and application of Reiki energy healing. The four levels of healing will be further explored, with emphasis on healing at the spiritual level. Following activation of the Reiki energy, participants will learn the energy symbols that allow for energy transfer through space and time. Students will learn to use second level Reiki energy for both distance healing and the standard Reiki treatment. A portion of each class meeting will be used to provide Reiki treatments and to discuss findings. Current literature and research findings will also be discussed.

CSPH 5555 Introduction to Body and Movement-based Therapies
2 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Nordstrom-Loeb, Barbara E

Description: This course will cover the basic theories and approaches of selected Somatic Therapies, including dance, movement and body-based therapies. It will include 1) historic and theoretical perspectives on the use of movement, dance and somatic re-patterning, 2) demonstrations of specific techniques, and 3) application of techniques to specific populations and settings. The experiential part of the course will include individual, partner and group exercises intended to embody and deepen the topics covered in the class.

CSPH 5611 Healthy Humor
1 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Smith, Kevin Lee

Description: Using formal lecture, informal discussion, written, and web-based assignments, students will learn how to use humor to enhance communication, treatment, and relationships with patients, and how to create a positive work environment with co-workers, and how to create a more positive outlook. This course will also explore the many physiologic effects and benefits of humor and laughter and the effects on the immune system. Discussion will include contemporary humor, humor and spirituality, and the connection between positive outlook and health. Students will be provided with practical humor techniques and resources that will help them to become a humor expert.

CSPH 5702 Fundamentals of Health Coaching II
A-F only, 4 credit(s); prereq 5701;
Instructor: Lawson MD, Karen Lynn

Description: Please contact department or instructor for further information. There will be a $300 course fee associated with this course.

CSPH 5705 Health Coaching Professional Internship
S-N only, 2 credit(s); prereq 5701, 5702, 5703, admitted to postbaccalaureate certificate in complementary therapies/healing practices health coaching track; [5101, 5102, 5704] recommended;
Instructor: Lawson MD, Karen Lynn

Description: Student may contact the instructor or department for information.

CSPH 8101 Critiquing and Synthesizing Complementary and Alternative Healing Practices (CAHP) Research
2 credit(s); prereq Grad student;
Instructor: Duckett, Laura J

Description: Student may contact the instructor or department for information.

CSPH 8191 Independent Study in Complementary Therapies and Healing Practices
1-6 credit(s), max credits 6, 1 repeat allowed; prereq instr consent;
Instructor: Lawson MD, Karen Lynn

Description: Student may contact the instructor or department for information.

Central Asian Studies
214 Nolte Center

CAS 3533 Islam and the West
3 credit(s); Credit will not be granted if credit has been received for: MELC 3533;
Instructor: Bashiri, Iraq

Description: Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation

Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.

Grading: 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

CAS 3601 Persian Fiction in Translation
3 credit(s); Credit will not be granted if credit has been received for: CAS 5601; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;
Instructor: Bashiri, Iraq

Description: Prose fiction was introduced to Iranian society in the early 1920s by Iranian intellectuals returning from Europe. In the beginning it had a difficulty finding a place in Persian literature, but finally it found a niche. Spearheaded by Muhammad Ali Jamalzadeh and promoted by Sadeg Hedayat, prose fiction became Iran’s most prominent vehicle for self expression. Young authors, first in the urban centers and later in the countryside, used this vehicle for familiarizing their countrymen with the new world realities. Through the development of Persian fiction in the context of Iran’s ancient heritage, students become acquainted with both the internal and external forces that bind contemporary Iranian society to world civilization. The works of Jamalzadeh (“Persian Is Sugar”), Hedayat (“The Blind Owl, The Stray Dog”), Al-i Ahmad (“The China Vase, Fascinated by the West”), Behrang (“The Little Black Fish”), and others are analyzed and discussed.

Style: 70% Lecture, 10% Film/Video, 20% Discussion. Video
CHEN 4214 Polymers
A-F only, 3 credit(s); prereq [[MATS 3011, [3101 or 4101 or MATS 4001, [upper div MatS or ChEn]]] or instr consent ;
Instructor: Bates, Frank S
Description: Polymer synthesis, characterization, structure property relations. Polymerization types: free radial, condensation, ionic, coordination polymerization kinetics and reactors; molecular weight distribution and its characteristics; network formation; swelling. Structure and morphology of the crystalline and amorphous state. Crystalization kinetics, vitrification and the glass transition, rubber elasticity, viscoelasticity, mechanical properties, failure, permeability, optical and electrical properties, polymer composites. On successful completion of this course, students will understand how most polymers are made and how they are characterized. They will be able to design simple synthetic schemes to produce a polymer of desired size and microstructure. They will understand how size and microstructure control properties. They will be able to select polymeric materials to meet specific property requirements.
Style: 55% Lecture, 5% Discussion.
Grading: 40% mid exam, 35% final exam, 25% problem solving.

CHEN 4223W Polymer Laboratory
2 credit(s); prereq 4214 or Concurrent registration is required (or allowed) in 4214 or CHEM 4214 or Concurrent registration is required (or allowed) in CHEM 4214 or MATS 4214 or Concurrent registration is required (or allowed) in MATS 4214 or instr consent ; Credit will not be granted if credit has been received for: CHEM 4223W; Meets CLE req of Writing Intensive;
Instructor: Hillmyer, Marc Andrew
Description: Student may contact the instructor or department for information.

CHEN 4400W Chemical Engineering Lab II
2 credit(s); prereq 4006, 4101, 4401W, upper div ChEn major; Meets CLE req of Writing Intensive;
Instructor: Caretta, Raul Alberto
Style: 15% Lecture, 85% Laboratory. Laboratory reports
Grading: 66% reports/papers, 15% in-class presentation, 19% other evaluation. One hour review exam
Exam Format: Essay

CHEN 4502W Chemical Engineering Process Design II
A-F only, 2 credit(s); prereq 4501W, [upper div ChEn major or dept consent ]; Meets CLE req of Writing Intensive;
Instructor: Cussler Jr. Edward L.
Description: The chemical industry today is changed from the chemical industry of twenty-five years ago. Clear evidence of this change comes from the jobs taken by graduating chemical professionals. Twenty-five years ago, eighty percent of these graduating students went to the commodity chemical industry,
exemplified by Dupont, BASF, Shell, and Dow. Now, twenty percent do. Twenty-five years ago, around ten percent went to product-oriented businesses like PPG, Pfizer, or 3M. Now, fifty percent do. The chemical industry now has a product focus. The new product-oriented chemical industry has three categories of products with different key characteristics. The first and most obvious category is commodities, the same products which used to dominate the chemical enterprise. The key for producing these products is their cost. Styrene produced by Dow and styrene produced by BASF are chemically identical; the issue is who can produce large quantities at the lowest possible price. This topic is covered in CHEN 4501. The second and third categories of products may be less familiar. The second category involves molecules with molecular weights of 500-700 and with specific social benefits. The most obvious examples are pharmaceuticals. The key to the production of pharmaceuticals is not their cost but their time to market, i.e., the speed of their discovery and production. These products are normally not made in dedicated equipment but rather in whatever reactors are available at that specific time. The third category includes products where the value is added by a specific microstructure. The key to these products is their function. For example, we don’t care why shoes shine after we have applied polish; we only care that they do shine. It is the shine, not the molecule that produces the shine, which is important. Customers will pay a premium for such a function, be it in a coating, in a food, or in a cleaner. Designing new products for this altered market requires tools beyond those supplied by concepts like unit operations, central to past engineering operations. What tools are available now and which are still missing will be explored.

CHEN 4593 Directed study
OPT No Aud, 1-4 credit(s), max credits 6, 3 repeats allowed; prereq ChEn major upper division, instr consent; Instructor: STAFF
Description: Directed study under faculty supervision. Student must meet with faculty supervisor before registering to get permission to pursue directed study, arrange study project, grading option, number of credits, and final report requirements.

CHEN 4594 Directed Research
OPT No Aud, 1-4 credit(s), max credits 6, 3 repeats allowed; prereq Instr. Consent Upper div ChEn; Instructor: STAFF
Description: Independent laboratory research under faculty supervision. Student should meet with faculty supervisor before registering to get permission to pursue directed research, arrange research project, number of credits, grading option, and final report requirements.

CHEN 4601 Process Control
A-F only, 3 credit(s); prereq 4102, [upper div ChEn major or dept consent ]; Instructor: Morse,David Clark
Description: Student may contact the instructor or department for information.

CHEN 4706 Advanced Undergraduate Physical and Chemical Thermodynamics
A-F only, 3 credit(s); prereq CHEM 3502, [3101 or 4101], [3005 or 4005], ChEn major upper div; background in undergrad engineering or chemistry courses in thermodynamics recommended; Instructor: Aydil,Eray S
Description: Student may contact the instructor or department for information.

CHEN 4708 Advanced Undergraduate Chemical Rate Processes: Analysis of Chemical Reactors
A-F only, 3 credit(s); prereq [3102 or 4102], ChEn major upper div; Instructor: Tsapatsis,Michael
Description: Student may contact the instructor or department for information.

CHEN 5753 Biological Transport Processes
A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed; prereq 3005 or 4005 or equiv; Credit will not be granted if credit has been received for: ME 5361; Instructor: Habisch,Emily Gwen
Description: Student may contact the instructor or department for information.

CHEN 8501 Chemical Rate Processes: Analysis of Chemical Reactors
A-F only, 3 credit(s); prereq [Course in chemical reactor engineering, chemical engineering grad student] or instr consent; Instructor: Tsapatsis,Michael
Description: Student may contact the instructor or department for information.

CHEN 8754 Systems Analysis of Biological Processes
3 credit(s); prereq Grad student in [life sciences or chemical/physical sciences or engineering]; ChEn students must take A-F; Instructor: Hu,Wei-Shou
Description: Student may contact the instructor or department for information.

CHEN 8901 Seminar
1 credit(s), max credits 9, 9 repeats allowed; Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

CHEN 8902 Seminar: Finite Element Methods of Computer-aided Analysis
A-F only, 1 credit(s); prereq Chemical engineering grad student or instr consent; Instructor: Kumar,Satish
Description: Student may contact the instructor or department for information.

CHEN 8993 Directed Study
1-12 credit(s), max credits 12, 1 repeat allowed; Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

CHEN 8994 Directed Research
1-12 credit(s), max credits 12, 1 repeat allowed; Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.
CHEM 1011 Introductory Chemistry: Lecture and Laboratory
4 credit(s); prereq [high school chemistry or equiv], two yrs high school math, not passed chem placement exam; high school physics recommended Not intended for students who will later take CHEM 1021; Credit will not be granted if credit has been received for: CHEM 1015; Meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Chem 1011 is an undergraduate introductory chemistry course. It may meet a chemistry or science requirement or it may serve as a bridge between high school chemistry and Chem 1021. This course provides a broad survey of chemistry, including an introduction to organic chemistry. Additional topics include matter and energy; measurements in chemistry; ionic and molecular compounds; chemical reactions and chemical equilibrium; gases, liquids, solids, and solutions; acids and bases; and nuclear chemistry.
Style: 50% Lecture, 50% Laboratory.
Grading: 20% laboratory evaluation, 5% problem solving, 75% other evaluation. Three midterm exams and a final exam
Exam Format: multiple choice

CHEM 1015 Introductory Chemistry: Lecture
3 credit(s); prereq [High school chemistry or equiv], two yrs high school math, not passed chem placement exam; high school physics recommended Does NOT meet CLE req of Physical Science/Lab Core. Intended for students continuing on to CHEM 1021; Credit will not be granted if credit has been received for: CHEM 1011;
Instructor: STAFF
Description: Chem 1015 is an undergraduate introductory chemistry course. It may meet a chemistry or science requirement or it may serve as a bridge between high school chemistry and Chem 1021. This course provides a broad survey of chemistry, including an introduction to organic chemistry. Additional topics include matter and energy; measurements in chemistry; ionic and molecular compounds; chemical reactions and chemical equilibrium; gases, liquids, solids, and solutions; acids and bases; and nuclear chemistry.
Style: 100% Lecture.
Grading: 5% problem solving. 95% three mid-term exams and a final exam

CHEM 1017 Introductory Chemistry: Laboratory
A-F only, 1 credit(s); prereq 1015, dept consent credit will not be granted if credit received for: 1011;
Instructor: STAFF
Description: Registration by department permission only. See staff in 115 Smith Hall or call 612-624-0026, CHEM 1017 is identical to the lab for CHEM 1011, but students do not attend any lecture or take any exams. Intended only for students who have taken the lecture-only course CHEM 1015, and later determine that taking the lab is now required.
Style: 100% Laboratory.

CHEM 1021 Chemical Principles I
4 credit(s); prereq Grade of at least C- in [1011 or 1015] or passing placement exam; intended for science or engineering majors Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Credit will not be granted if credit has been received for: CHEM 1031H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Chem 1021 and Chem 1022 are introductory undergraduate chemistry courses with lab. Lectures include chemical demonstrations. Together these two courses prepare students for majors in science, engineering, and the health sciences. Topics include atoms, molecules, and ions; types of chemical reactions and chemical stoichiometry; thermochemistry; atomic structure and the periodic table; ionic and covalent bonding; molecular shapes; an introduction to organic chemistry and polymers; the nature of gases, liquids and solids.
Style: 50% Lecture, 50% Laboratory.
Grading: 20% laboratory evaluation, 80% other evaluation.
Mid-term exams, final exam, problem sets

CHEM 1022 Chemical Principles II
4 credit(s); prereq Grade of at least C- in 1021 or equiv Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Credit will not be granted if credit has been received for: CHEM 1032H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Chem 1022 is an introductory undergraduate chemistry course with lab. Together, Chem 1021 and Chem 1022 prepare students for majors in science, engineering, and the health sciences. Lectures include chemical demonstrations. Major topics are properties of solutions; chemical kinetics, the study of the rates and mechanisms of chemical reactions; chemical equilibrium in the gas phase; equilibria in aqueous solutions, including acid-base equilibria; entropy and free energy; electrochemistry; transition metals and coordination chemistry; and selected topics. Environmental issues related to course topics are an integral part of this course. For example, the discovery of the depletion of the stratospheric ozone layer by chlorofluorocarbons (CFCs) is an important application of chemical kinetics.
Style: 50% Lecture, 50% Laboratory.
Grading: 20% laboratory evaluation, 80% other evaluation.
Mid-term exams, final exam, problem sets

CHEM 1032H Honors Chemistry II
A-F only, 4 credit(s); prereq [1031H or equiv], honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: CHEM 1022; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Stein,Andreas
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: Sci. Progress: Pop Culture and Policy
A-F only, 2 credit(s), max credits 3, 1 repeat allowed; prereq freshman;
Instructor: Cramer,Christopher J
Description: Undergraduate science courses are too often taught as a survey of the given discipline in which important concepts are presented as facts accompli. The back and forth of scientific inquiry and discussion (and occasional controversy!) are ignored in the interests of covering as much material as possible. The history of science, however, offers many examples illustrating how messy the actual process of discovery and interpretation can be. This course focuses on particular advances and the individuals who made them and places those discoveries into the context of their time. What prior work led investigators to their new ideas? How were these ideas received by the scientific community initially and to what extent were they modified by the response of other researchers to them? What ultimate influence did they have on the field as a whole and, in more modern times, on science policy? What was the importance of multidisciplinarianism? in the particular advance? What kind of patronage, or politics, affected the researchers? ability to carry out the research and their interpretation of the results? We will read two published works (one biographical, one investigative journalism) that illuminate some of these issues for the particular cases of the discovery of nuclear fission and the start-up of a new pharmaceutical company. We will also discuss on a weekly basis the most current stories in the popular press relevant to the course.
Style: 5% Lecture, 85% Discussion, 5% Demonstration, 5% Field Trips.
Grading: 50% in-class presentation, 50% class participation.
CHEM 1905 Freshman Seminar: Solar Energy & the Environment
A-F only, 2 credit(s), max credits 3, 1 repeat allowed; prereq freshman;
Instructor: Zhu,Xiaoyang
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: Recycling In The Twin Cities
A-F only, 2 credit(s), max credits 3, 1 repeat allowed; prereq freshman;
Instructor: Noland,Wayland E
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: My Other Car Is A Bicycle
A-F only, 2 credit(s), max credits 3, 1 repeat allowed; prereq freshman;
Instructor: Penn,Lee
Description: Student may contact the instructor or department for information.

CHEM 1910W Freshman Seminar: Writing Intensive: Quantum Mechanics and Popular Philosophy
A-F only, 2 credit(s); prereq 2301; Meets CLE req of Writing Intensive;
Instructor: Leopold,Doreen Geller
Description: Student may contact the instructor or department for information.

CHEM 2094 Directed Research
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Stathopoulos,Stephanie M
Description: Student may contact the instructor or department for information.

CHEM 2121 Process Analytical Chemistry
A-F only, 3 credit(s); prereq [2302 or Concurrent registration is required (or allowed) in 2302], [3501 or Concurrent registration is required (or allowed) in 3501], IT student;
Instructor: Bowser,Michael
Description: Student may contact the instructor or department for information.

CHEM 2301 Organic Chemistry I
3 credit(s); prereq Grade of at least C- in [1022 or 1032H] or equiv Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.;
Instructor: STAFF
Description: Important classes of organic compounds, their constitutions, configurations, conformations, and reactions. Relationships between molecular structure and chemical reactivity/properties. Spectroscopic characterization of organic molecules.
Style: 100% Lecture.
Grading: 100% other evaluation. 4 Midterm Exams and a Final Exam
Exam Format: Mix of multiple choice and written exams

CHEM 2302 Organic Chemistry II
3 credit(s); prereq Grade of at least C- in 2301;
Instructor: STAFF
Description: Reactions, synthesis, and spectroscopic characterization of organic compounds, organic polymers, and biologically important classes of organic compounds such as lipids, carbohydrates, amino acids, peptides, proteins, and nucleic acids.
Style: 100% Lecture.
Grading: 100% other evaluation. 4 Mid-Term Exams and a Final Exam
Exam Format: Mix of multiple choice and written questions

CHEM 2311 Organic Lab
4 credit(s); prereq Grade of at least C- in 2302 or Concurrent registration is required (or allowed) in 2302;
Instructor: Wissinger,Jan E
Description: This course is designed for undergraduates in the health and science fields that need to fulfill the undergraduate organic chemistry laboratory requirement. It is to be taken after the Organic I lecture course 2301, and concurrently or subsequent to Organic lecture course 2302. The 2311 course is one-semester in length, worth 4 credits, and equivalent to the usual two semester organic laboratory courses taught at all institutions. In the course, interesting and relevant experiments are used to teach the techniques used in the organic laboratory to study, synthesize, isolate, and purify organic compounds. A wide array of instruments including IR, NMR, and GC are used for analysis and computers are used to study molecular conformations and chemical properties. Molecules studied include analgesics, flavors, natural products, dyes, recyclable polymers, and chemiluminescent compounds. Experiments are presented in a manual written by Wissinger and a laboratory techniques textbook (&quot;Pavla&quot;) is required. Results are recorded both in report and worksheet formats. Overall, the objective is to give the students hands-on experience illustrating chemistry they learned in lecture, teach problem-solving skills, and demonstrate the value of organic chemistry in our daily lives.
Style: 10% Lecture, 90% Laboratory.
Grading: 74% reports/papers, 9% quizzes, 17% other evaluation. preparation and technique

CHEM 2920 Special Topics In Chemistry
S-N only, 1 credit(s); prereq 6, 6 repeats allowed;
Instructor: Stathopoulos,Stephanie M
Description: Student may contact the instructor or department for information.

CHEM 3001 Chemical Literature and Information Retrieval
S-N only, 1 credit(s); prereq 2302 or concurrent enrollment
Instructor: Lafferty,Meaghan
Description: The ability to find chemical information is a crucial skill for chemists in order to make their research more efficient and avoid duplicating work that has already been done. In this course, you will learn about the organization of the chemical literature, important print and electronic resources for navigating the literature of chemistry, and selecting the most appropriate resource for your needs.

CHEM 3501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics
3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
Instructor: STAFF
Style: 100% Lecture.
Grading: 100% other evaluation. 3 Mid-term exams and a final exam

CHEM 3502 Introduction to Quantum Mechanics and Spectroscopy
3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
Instructor: STAFF
Description: Introduction to microscopic descriptions of chemical systems. Elementary quantum theory. Applications to atomic/molecular structure. Molecular spectroscopy. Quantum statistical mechanics. While a course in differential equations is not required, solutions to several such equations are discussed.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
University of Minnesota - Course Guide for Twin Cities Campus  Spring 2009

- **CHEM 4021 Computational Chemistry**
  - 3 credit(s); prereq 3502 or equiv;
  - Instructor: Cramer, Christopher J
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4066 Chemistry of Industry**
  - 3 credit(s); prereq Chem sr or grad student or instr consent;
  - Instructor: Kasper, Timothy Roland
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4094W Directed Research**
  - 1-5 credit(s), max credits 75, 15 repeats allowed; prereq Any 3xxx or 4xxx chem course, instr consent; Meets CLE req of Writing Intensive;
  - Instructor: Stathopoulos, Stephanie M
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4111W Intermediate Analytical Chemistry Lab**
  - A-F only, 2 credit(s); prereq 4101, chemistry major; Meets CLE req of Writing Intensive;
  - Instructor: Carr, Peter William
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4214 Polymers**
  - A-F only, 3 credit(s); prereq [2302, Concurrent registration is required (or allowed) in 3501, Chem sr] or instr consent;
  - Instructor: Bates, Frank S
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4223W Polymer Laboratory**
  - 2 credit(s); prereq 4214 or Concurrent registration is required (or allowed) in 4214 or CHEN 4214 or Concurrent registration is required (or allowed) in CHEN 4214 or MATS 4214 or Concurrent registration is required (or allowed) in MATS 4214 or instr consent; Credit will not be granted if credit has been received for: MATS 4223W; Meets CLE req of Writing Intensive;
  - Instructor: Hillmyer, Marc Andrew
  - **Description:** Style: 20% Lecture, 80% Laboratory.
  - **Grading:** 60% reports/papers, 20% written homework, 20% laboratory evaluation.

- **CHEM 4311W Advanced Organic Chemistry Lab**
  - 2 credit(s); prereq 2311; Meets CLE req of Writing Intensive;
  - Instructor: STAFF
  - **Description:** Reactions, techniques and instrumental methods used in modern synthetic organic chemistry.
  - **Style:** 10% Lecture, 90% Laboratory.
  - **Grading:** 100% laboratory evaluation.

- **CHEM 4322 Advanced Organic Chemistry**
  - 3 credit(s); prereq [2302 or equiv], 3501, instr consent;
  - Instructor: Hoye, Thomas R
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4352 Physical Organic Chemistry**
  - 3 credit(s); prereq 3501, [4011 or 8011];
  - Instructor: Kass, Steven R
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4711W Advanced Inorganic Chemistry Lab**
  - A-F only, 2 credit(s); prereq 4701, chem major; Meets CLE req of Writing Intensive;
  - Instructor: Mann, Kent R
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4725 Organometallic Chemistry**
  - 3 credit(s); prereq 4701 or equiv, chem major or instr consent;
  - Instructor: Ellis, John Emmett
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 4735 Bioinorganic Chemistry**
  - 3 credit(s); prereq 4701 or equiv, chem grad or instr consent;
  - Instructor: Que Jr, Lawrence
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 5210 Materials Characterization**
  - A-F only, 4 credit(s); prereq grad student or instr consent;
  - Instructor: Penn, Lee
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 5501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics**
  - A-F only, 3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
  - Instructor: Gao, Jiali
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 5502 Introduction to Quantum Mechanics and Spectroscopy**
  - A-F only, 4 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
  - Instructor: Gao, Jiali
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 5755 X-Ray Crystallography**
  - A-F only, 4 credit(s); prereq Chem grad student or instr consent;
  - Instructor: Young Jr, Victor G
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 8021 Computational Chemistry**
  - 4 credit(s); prereq 3502 or equiv;
  - Instructor: Cramer, Christopher J
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 8066 Professional Conduct of Chemical Research**
  - S-N only, 1 credit(s); prereq Chem grad student;
  - Instructor: Siepmann, Ilja
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 8081 M.S. Plan B Project I**
  - A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq grad chem major;
  - Instructor: Tomlinson, Charles Nagel
  - **Description:** Student may contact the instructor or department for information.

- **CHEM 8082 M.S. Plan B Project II**
  - A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq grad chem major;
  - Instructor: Tomlinson, Charles Nagel
  - **Description:** Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://oneshop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### Schedule

Course Guide at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class University of Minnesota - Course Guide for Twin Cities Campus Spring 2009

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CHEM 8152</td>
<td>Analytical Spectroscopy</td>
<td>4</td>
<td>grad chem major or instr consent</td>
<td>Haynes, Christy L</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8153</td>
<td>Extracting Signal From Noise</td>
<td>A-F only</td>
<td>5 credits</td>
<td>Arienaga, Edgar</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>CHEM 8211</td>
<td>Physical Polymer Chemistry</td>
<td>4</td>
<td>Undergrad physical chem course</td>
<td>Lodge, Timothy P</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8322</td>
<td>Advanced Organic Chemistry</td>
<td>4</td>
<td>prereq 2302 or equiv</td>
<td>Hoyer, Thomas R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8352</td>
<td>Physical Organic Chemistry</td>
<td>4</td>
<td>prereq 4011 or 8011</td>
<td>Kass, Steven R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8480</td>
<td>Special Topics in Biological Chemistry: Nucleic Acids</td>
<td>3</td>
<td>max credits 4, 1 repeat allowed</td>
<td>Tretyakova, Natalia Yurievna</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8552</td>
<td>Quantum Mechanics II</td>
<td>4</td>
<td>prereq 8551</td>
<td>Lipsky, Sanford</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8562</td>
<td>Thermodynamics, Statistical Mechanics, and Reaction Dynamics II</td>
<td>4</td>
<td>prereq 8561</td>
<td>Zhu, Xiaoyang</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8601</td>
<td>Seminar: Modern Problems in Chemistry</td>
<td>S-N only</td>
<td>1 credit</td>
<td>Pierre, Valerie Christine</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8602</td>
<td>Seminar Presentation: Modern Problems in Chemistry</td>
<td>A-F only</td>
<td>1 credit</td>
<td>Pierre, Valerie Christine</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8725</td>
<td>Organometallic Chemistry</td>
<td>4</td>
<td>prereq 4701 or equiv</td>
<td>Ellis, John Emmett</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CHEM 8735</td>
<td>Bioinorganic Chemistry</td>
<td>4</td>
<td>prereq 4701 or equiv</td>
<td>Que Jr, Lawrence</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

### Chicano Studies

**19 Scott Hall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIC 1112</td>
<td>Introduction to Chicana/o Studies: Critical Paradigms</td>
<td>3</td>
<td>Credit will not be granted if credit has been received for: CHIC 1106; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core</td>
<td>Bueno, Marianne M.</td>
<td>This course is intended as a survey of the discipline of Chicano Studies. The course will serve as a foundation for understanding the prevailing paradigms of analysis, methodologies of research and guiding theoretical concepts that have shaped the discipline. While we will survey aspects of Chicana/o history, culture and meanings, this course will not follow a neat, chronological history. Rather, will examine the major themes in Chicano Studies to give students a theoretical, critical and methodological base from which they might approach subsequent courses in the discipline. As such, we will use a variety of sources including monographs, articles, novels, primary documents, movies and documentaries in order to explore defining elements of the lived experience of Chicanas and Chicanos. The goal of this class is to help you understand the processes out of which Chicana/o identities are formed, articulated, practiced, transformed and questioned through first-hand and historical evidence and contemporary scholarship. Style: 35% Lecture, 15% Film/Video, 35% Discussion, 10% Small Group Activities, 5% Guest Speakers.</td>
</tr>
<tr>
<td>CHIC 1275</td>
<td>Service Learning in the Chicano/Latino Community</td>
<td>3</td>
<td>Credit will not be granted if credit has been received for: CHIC 3275; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;</td>
<td>Ganley, Kathleen Marie</td>
<td>This course is premised on the notion that there are many institutional and social constraints and limitations within schools that block equitable educational opportunities and outcomes for Latino students. It is also based on the idea that students who fail to learn in our schools and fail to graduate are our responsibility. In this course, you will be asked to think and act as you contribute to youth education. You will study the education of Chicanos/Latinos in the United States through the integration of academic materials, discussion, guest speakers and visits to the community while doing community service in an educational setting with Latino youth. Over the course of the semester, you will provide 42 hours of tutoring and mentoring (approx. 3 hours a week) in culturally grounded programs in one of the following sites: La Escuelita, Academia Cesar Chavez or Edison High School. You will analyze the education of Chicanos/Latinos while reflecting on issues such as equality, language usage, graduation statistics, college enrollment, various educational methodologies, special challenges faced by immigrants, and current legislation to create change. In this course students will be called upon to problematize and think critically about &quot;service.&quot; A portion of class discussions will focus on the concept of service and what place it has in society. Style: 20% Lecture, 40% Discussion, presentations, Web-CT Grading: 20% reports/papers, 10% in-class presentation, 10% class participation, 10% problem solving, 50% other evaluation. Tutoring at community site</td>
</tr>
<tr>
<td>CHIC 3213</td>
<td>Chicano Music and Art</td>
<td>A-F only</td>
<td>3 credits</td>
<td>Covarrubias, Alexandra Mendoza</td>
<td></td>
</tr>
</tbody>
</table>
Schedule.

Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

CHIC 3275 Service Learning in the Chicano/Latino Community
Description: This course introduces students to various research methodologies and theoretical approaches for understanding contemporary Chicana/o communities. Examining and understanding ethnographic, psychological, sociological, economic, and political approaches, for example, and the comparative strengths and weaknesses of qualitative and quantitative methods, will assist students in evaluating Latino/a and Chicana/o communities. 

Instructor: Ganley, Kathleen Marie
Style: 25% Lecture, 40% Discussion, 15% Student Presentation.
Grading: 20% reports/papers, 20% quizzes, 30% reflection paper, 10% in-class presentation, 10% class participation, 10% problem solving, 50% other evaluation.
Tutoring at community site

CHIC 3275 Introduction to Chicana/o Literature
Description: This introductory course will focus in large part on the use and function of feminine archetypes within the canon of Chicana/o literature. Students will be exposed to a variety of texts and writing styles and will learn to identify the themes and aesthetics that characterize Chicana/o literature in its many forms as well as understand the significance of the counter-narratives that Chicana/o literature presents. We will approach the readings from an intersectional perspective; analyzing works for the ways in which they confront not only race, class, sexuality and gender issues, but issues of transnationalism and globalization as well.

Instructor: Covarrubias, Alexandra Mendoza
Style: 25% Lecture, 60% Discussion, 15% Student Presentation.
Grading: 20% reports/papers, 20% quizzes, 30% reflection paper, 10% in-class presentation, 10% class participation, 10% other evaluation. 3 short papers (10% each), final paper (20%), draft feedback (10%), 5 quizzes- lowest score dropped (20%), group presentation (10%), and class participation (10%)

CHIC 3282 Chicana/o History II: WWII, El Movimiento, and the New Millenium
Description: This course examines the experiences of people of Mexican descent in the United States during the second half of the 20th century. The course will provide a foundation for understanding the central role of Chicanas and Chicanos in the history, culture, and politics of the United States. While organized chronologically the guiding principle of this course is the understanding that the lives of people of Mexican descent are multiply constructed. That is, interrogating the lived experiences of Chicanas/os through the lens of intersectionality offers new insight into both Chicana/o and US history. We will use a variety of sources including monographs, articles, novels, primary documents, movies and documentaries in order to construct a nuanced understanding of Chicanas and Chicanos at different historical moments. Over the course of the semester we will survey the major challenges faced by people of Mexican descent in the US in order to critically discuss the social, economic, cultural and political changes that influenced the day-to-day life of Chicanas/os.

Instructor: Rodriguez, Randy A
Style: 35% Lecture, 15% Film/Video, 35% Discussion, 10% Small Group Activities, 5% Guest Speakers.

CHIC 3274 Chicana/o and Latina/o Representation in Film
Description: Student may contact the instructor or department for information.

Instructor: Merla-Watson, Cathryn Josefin

CHIC 3273 Chicana/o and Latina/o Representation in Film

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Murphy, Marianne M.

Description: This course examines Chicana/o and Latina/o representation, and participation in the film industry. We will survey a range of films that have been produced by Chicana/o and Latina/o artists and directors, and critically analyze their content and cultural impact. We will also examine the ways in which film production and consumption shape and reflect cultural identities. 

Instructor: forward, Kathleen Marie

Style: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class participation.

CHIC 3272 Chicana/o and Latina/o Representation in Film

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Merla-Watson, Cathryn Josefin

Description: This course examines Chicana/o and Latina/o representation, and participation in the film industry. We will survey a range of films that have been produced by Chicana/o and Latina/o artists and directors, and critically analyze their content and cultural impact. We will also examine the ways in which film production and consumption shape and reflect cultural identities. 

Instructor: Murphy, Marianne M.

Style: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class participation.

CHIC 3271 Chicana/o and Latina/o Representation in Film

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Merla-Watson, Cathryn Josefin

Description: This course examines Chicana/o and Latina/o representation, and participation in the film industry. We will survey a range of films that have been produced by Chicana/o and Latina/o artists and directors, and critically analyze their content and cultural impact. We will also examine the ways in which film production and consumption shape and reflect cultural identities. 

Instructor: Murphy, Marianne M.

Style: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class participation.

CHIC 3270 Chicana/o and Latina/o Representation in Film

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Merla-Watson, Cathryn Josefin

Description: This course examines Chicana/o and Latina/o representation, and participation in the film industry. We will survey a range of films that have been produced by Chicana/o and Latina/o artists and directors, and critically analyze their content and cultural impact. We will also examine the ways in which film production and consumption shape and reflect cultural identities. 

Instructor: Murphy, Marianne M.

Style: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class participation.

CHIC 3269 Chicana/o and Latina/o Representation in Film

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Merla-Watson, Cathryn Josefin

Description: This course examines Chicana/o and Latina/o representation, and participation in the film industry. We will survey a range of films that have been produced by Chicana/o and Latina/o artists and directors, and critically analyze their content and cultural impact. We will also examine the ways in which film production and consumption shape and reflect cultural identities. 

Instructor: Murphy, Marianne M.

Style: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class participation.

CHIC 3268 Chicana/o and Latina/o Representation in Film

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

Instructor: Merla-Watson, Cathryn Josefin

Description: This course examines Chicana/o and Latina/o representation, and participation in the film industry. We will survey a range of films that have been produced by Chicana/o and Latina/o artists and directors, and critically analyze their content and cultural impact. We will also examine the ways in which film production and consumption shape and reflect cultural identities. 

Instructor: Murphy, Marianne M.

Style: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class participation.
CHIC 3771 Latino Social Power and Social Movements in the U.S. 
3 credit(s); 
Instructor: Rodriguez, Randy A 
Description: This course introduces students to U.S. Latino/a responses to economic, social, and political domination since the period of the Civil Rights era of the mid-1960s. Specifically, in this course of study we will closely examine social protest movements initiated and organized by Chicanas/os and Puertorique?as/os during the 1960s and 1970s and subsequent efforts to mobilize Latino/a groups and communities to expand rights and access power. We will consider not only the collective movements and protests such as the Chicano Moratorium and East LA ?Walkouts?, but some of the organized subgroups such as the Brown Berets, Young Lords, and Las Hermanas. Legal, religious, organizational issues will be scrutinized and more recent responses to issues such as immigration will also be assessed. Thoughtful response papers, group facilitations, film and video viewing, a longer research/analytic paper, small group work, instructor lecture, and general class discussion will help each student understand and apply concepts in a manner that will enhance and clarify their comprehension of United States Latino social power and social movements. 
Style: 20% Lecture, 15% Film/Video, 20% Discussion, 15% Small Group Activities, 20% Student Presentation. 10% TBD 
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

CHIC 3900 Topics in Chicano Studies 
A-F only, 1-3 credit(s), max credits 6; 
Instructor: Torres PhD, Eden E. 
Description: Student may contact the instructor or department for information.

CHIC 3993 Directed Studies 
1-9 credit(s), max credits 16, 16 repeats allowed; prereq instr consent; 
Instructor: Torres PhD, Eden E. 
Description: Student may contact the instructor or department for information.

CHIC 4901W Senior Paper 
A-F only, 2 credit(s); prereq Concurrent registration is required (or allowed) in 4900; Meets CLE req of Writing Intensive; 
Instructor: Torres PhD, Eden E. 
Description: Student may contact the instructor or department for information.

CHIC 5374 Migrant Farmworkers in the U.S.: Families, Work, and Advocacy 
3 credit(s); 
Instructor: Sass Zaragoza, Lisa 
Description: This course examines the historical, legal and political forces which impact farmworkers lives and farmworker movements. We will study the interplay of ethnicity, class and gender as they pertain to social and economic marginalization of migrant workers. We examine the larger community response, both in support of and against, organized farmworker groups and the role and power of the consumer in today's agricultural system. This course provides a solid foundation for students who wish to apply for summer positions with migrant farmworker organizations or agencies. Upper division undergraduates and graduate students. Fulfills Social Sciences Diversified Core and Cultural Diversity requirements. 
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers. 
Exam Format: multiple choice and short answer

CHIC 5993 Directed Studies 
1-3 credit(s), max credits 16, 16 repeats allowed; prereq instr consent; 
Instructor: Torres PhD, Eden E. 
Description: Student may contact the instructor or department for information.

Child Psychology

104 Child Development

CPSY 1910W Freshman Seminar, Writing Intensive: Child Psychologists Confront the Real World 
3 credit(s), max credits 6; prereq Fr; Meets CLE req of Writing Intensive; 
Instructor: Pick Jr, Herbert L 
Description:

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Heinrichs PhD, Marian R 
Description: Student may contact the instructor or department for information.

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Lafavor, Theresa Lynn 
Description: Student may contact the instructor or department for information.

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Pleuss, Jessica C 
Description: Student may contact the instructor or department for information.

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Herrera, Adriana Marie 
Description: Student may contact the instructor or department for information.

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Lingras, Katie 
Description: Student may contact the instructor or department for information.

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Salvatore, Jessica Elizabeth 
Description: Student may contact the instructor or department for information.

CPSY 2301 Introductory Child Psychology 
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core; 
Instructor: Marks, Peter E 
Description: Student may contact the instructor or department for information.
CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Heinrichs PhD,Marian R
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Lafavor, Theresa Lynn
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Pleuss, Jessica C
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Millett, Katherine Gordon
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Marks, Peter E
Description: Student may contact the instructor or department for information.

CPSY 3308 Introduction to Research Methods in Child Psychology
A-F only, 4 credit(s); prereq 2301, Psy 1001;
Instructor: Karatekin, Canan
Description: Style: 100% Lecture.
Grading: The course will include many ways of evaluating students. Please contact the instructor for the specific grading criteria.
Exam Format: Short-response

CPSY 3360 Child Psychology Honors Seminar
A-F only, 2 credit(s); prereq CPsy honors student;
Instructor: Yussen, Steve
Description: Student may contact the instructor or department for information.

CPSY 4302 Infant Development
A-F only, 4 credit(s); prereq 2301 or instr consent;
Instructor: Millett, Katherine Gordon
Description: Student may contact the instructor or department for information.

CPSY 4303 Adolescent Psychology
A-F only, 4 credit(s); prereq Psy 1001;
Instructor: Salvatore, Jessica Elizabeth
Description: Student may contact the instructor or department for information.

CPSY 4303 Adolescent Psychology
A-F only, 4 credit(s); prereq Psy 1001;
Instructor: Warren, Henriette
Description: This undergraduate course examines psychological development during adolescence. The major goals include 1) gaining an understanding of the major theoretical perspectives on adolescent development, 2) identifying biological, cognitive and social processes of adolescence and the ways in which they interact to influence development, 3) recognizing the role that contextual factors play in shaping adolescent experiences, and 4) gaining familiarity with prominent research methods used in conducting studies of adolescent development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.
Style: 80% Lecture. 10% Discussion. instructional videos
Grading: 45% mid exam, 20% final exam, 30% reports/papers, 5% class participation.
Exam Format: multiple choice

CPSY 4313 Disabilities and Development
4 credit(s); prereq Psy 1001;
Instructor: Abery, Brian Hinton
Description: The purpose of this course is to provide students with a broad understanding of disabilities and their impact upon child development, taking into consideration the ecology within which growth and maturation take place. Content areas covered will include: disabilities and the educational system, disability and the family, multi-cultural issues and disability, mental retardation, learning disabilities, attention deficit disorder, physical and health related disabilities, autism and traumatic brain injury, communication disorders, hearing and visual impairments, and emotional and behavioral challenges. When covering each disability, issues of etiology, identification, assessment, intervention and developmental outcome will be discussed. A number of additional disability-related topics will also be explored over the course of the semester. These include self-advocacy and self-determination, social inclusion, and ethical and legal issues.
Style: 75% Lecture. 25% Discussion.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% problem solving.
Exam Format: Multiple choice and essay

CPSY 4331 Social and Personality Development
A-F only, 4 credit(s); prereq 2301, Psy 1001;
Instructor: Cobb, Aimee Lynn
Description: Student may contact the instructor or department for information.

CPSY 4331 Social and Personality Development
A-F only, 4 credit(s); prereq 2301, Psy 1001;
Instructor: Orina, Minda
Description: Student may contact the instructor or department for information.

CPSY 4334W Children, Youth in Society
A-F only, 4 credit(s); prereq 2301; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Reynolds, Arthur J.
Description: Student may contact the instructor or department for information.

CPSY 4336W Development and Interpersonal Relations
A-F only, 4 credit(s); prereq 2301 or equiv, 4331; Meets CLE req of Writing Intensive;
Instructor: Hesemeyer, Paloma S
Description: Student may contact the instructor or department for information.

CPSY 4343 Cognitive Development
A-F only, 3 credit(s); prereq 2301;
Instructor: Rohrer, Lisa Michelle
Description: Student may contact the instructor or department for information.

CPSY 4345 Language Development and Communication
A-F only, 3 credit(s); prereq 2301;
Instructor: Sera PhD, Maria D
Description: This course is designed to introduce students to
the study of language development. The course is organized into four sections: Speech Perception, Lexical Semantics, Syntax and Morphology, and Language and Cognition.

**Style:** 90% Lecture, 10% Discussion.

**Grading:** 40% mid exam, 40% final exam, 15% reports/papers, 5% class participation.

**Exam Format:** multiple choice and short answer

**CPSY 4347W Senior Project**
A-F only, 2 credit(s); prereq CPsy sr; Meets CLE req of Writing Intensive;
Instructor: Thomas,Kathleen M
Description: Student may contact the instructor or department for information.

**CPSY 4994 Directed Research in Child Psychology**
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent;
Instructor: STAFF
Description: This is an opportunity for students to assist in developmental research. Many opportunities are listed on our CPSY undergraduate advising board in Room 106. Possible tasks might include making phone calls to solicit subjects; scheduling and confirming appointments; updating information; filming subjects; coding data, entering data into a computer; tabulating data; analyzing data statistically; sitting with siblings during experiments; doing library research; collecting archival data. This list is not exhaustive. A contract and override are required to register. The student uses a contract as an opportunity to clarify opportunities, responsibilities, and desires, etc.
Style: 10% Discussion, 90% Laboratory.
Grading: 20% special projects, 70% laboratory evaluation, 10% problem solving.

**CPSY 4994V Directed Research in Child Psychology (Honors Thesis)**
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Cicchetti PhD,Dante
Description: Student may contact the instructor or department for information.

**CPSY 4994V Directed Research in Child Psychology (Honors Thesis)**
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Maratsos,Michael P
Description: Student may contact the instructor or department for information.

**CPSY 4994V Directed Research in Child Psychology (Honors Thesis)**
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Masten,Ann S
Description: Student may contact the instructor or department for information.

**CPSY 4994V Directed Research in Child Psychology (Honors Thesis)**
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Thomas,Kathleen M
Description: Student may contact the instructor or department for information.

**CPSY 4994V Directed Research in Child Psychology (Honors Thesis)**
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Karatekin,Canan
Description: Student may contact the instructor or department for information.
CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Gewirtz, Abigail Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Reynolds, Arthur J. Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Zelazo, Philip David Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Carlson, Stephanie M Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 repeats allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Koenig, Melissa Description: Student may contact the instructor or department for information.

CPSY 4996 Field Study in Child Psychology
S-N only, 1-4 credit(s), max credits 8, 8 repeats allowed; prereq 4 cr CPsy, instr consent; Instructor: Mooney-McLoone, Ann Description: This opportunity normally provides students with an practicum experience (volunteer). It offer another way to develop contacts and explore different career possibilities. The Child Psychology Peer Advising Office, Room 140, Child Development, will direct you to volunteer possibilities. look at ICD website and click on cpsy 4996 to find out what course requirements are and how credit hours are counted. There are many agencies that may be of interest to students and they are expected to find a volunteer site first and then come see Ann McLoone when they have set it up or email her. There is no class but I send out questions periodically for you to reflect on and answer. The hours are usually flexible enough to work around any schedule. Students sign up for 1-4 credits. 3 hours on site per week 1 credit is required. Normally students sign up for 1 or 2 cr. per semester. Style: 10% Discussion, 90% Laboratory. Grading: 20% reports/papers, 80% laboratory evaluation. student evaluation by on-site supervisor Exam Format: paper and journal

CPSY 5252 Facilitating Social and Physical Learning in Early Childhood Education
A-F only, 3 credit(s); prereq Student in early childhood ed or early childhood special ed credit will not be granted if credit received for: CI 5252; Instructor: Carlson PhD, LaVonne Description: Student may contact the instructor or department for information.

CPSY 5281 Student Teaching in Early Childhood Education
S-N only, 3-6 credit(s), max credits 6, 1 repeat allowed; prereq MEd student in early childhood ed or early childhood special ed credit will not be granted if credit received for: 5281; Instructor: Murphy, Barbara Ann Description: Student may contact the instructor or department for information.

CPSY 5521 Prevention and Intervention in Infant and Early Childhood Mental Health II
A-F only, 3 credit(s); prereq 5518; Instructor: Schultz, Susan Kristine Description: Student may contact the instructor or department for information.

CPSY 5523 Reflective Supervision in Infant and Early Childhood Mental Health: Community-based
S-N only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 5518 or Concurrent registration is required (or allowed) in 5521; Instructor: Harman, Scott Description: Student may contact the instructor or department for information.

CPSY 5525 Reflective Supervision in Infant and Early Childhood Mental Health: Clinical
S-N only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 5518 or Concurrent registration is required (or allowed) in 5521; Instructor: Siegel, Carol F Description: Student may contact the instructor or department for information.

CPSY 8302 Developmental Psychology: Social and Emotional Processes
4 credit(s); prereq Doctoral student or instr consent; Instructor: Collins, W Andrew Description: Student may contact the instructor or department for information.

CPSY 8321 Seminar: Current Issues in Teaching Developmental Psychology
1 credit(s), max credits 2; prereq CPsy doctoral student or instr consent; Instructor: Warren, Henriette Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Multiple Levels of Analysis: Child Maltreatment
3 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student; Instructor: Cicchetti PhD, Dante Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Prelim Seminar
1 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student; Instructor: Maratos, Michael P Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Prevention Science
3 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student; Instructor: Fulkerson, Jayne Description: Student may contact the instructor or department for information.
CPSY 8360 Special Topics in Developmental Psychology: Clinical Interventions with Children
3 credit(s), max credits 21, 7 repeats allowed; prereq
Doctoral student;
Instructor: Gewirtz, Abigail
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Theoretical Foundations of Developmental Psych
3 credit(s), max credits 21, 7 repeats allowed; prereq
Doctoral student;
Instructor: Zelazo, Philip David
Description: Student may contact the instructor or department for information.

CPSY 8360 Special Topics in Developmental Psychology: Imagination
2 credit(s), max credits 21, 7 repeats allowed; prereq
Doctoral student;
Instructor: Carlson, Stephanie M
Description: Student may contact the instructor or department for information.

CPSY 8606 Advanced Developmental Psychopathology
3 credit(s); prereq Doctoral student or instr consent;
Instructor: Masten, Ann S
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Cicchetti, Dante
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Maratos, Michael P
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Masten, Ann S
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Georgieff, Michael K
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Thomas, Kathleen M
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Pick Jr, Herbert L
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Sroufe, Alan L
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Crick, Nicki R
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Sera, Maria D
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Weinberg, Richard A
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Collins, W Andrew
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Egeland, Byron R
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Gunnar, Megan R
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Sroufe, L Alan
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Gewirtz, Abigail
**Description:** Student may contact the instructor or department for information.

#### CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Reynolds, Arthur J.
**Description:** Student may contact the instructor or department for information.

#### CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Ge, Xiaojia
**Description:** Student may contact the instructor or department for information.

#### CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Carlson, Stephanie M.
**Description:** Student may contact the instructor or department for information.

### 1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Koenig, Melissa
**Description:** Student may contact the instructor or department for information.

#### CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Zelazo, Philip David
**Description:** Student may contact the instructor or department for information.

#### CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 repeats allowed; prereq
**Doctoral student or instr consent**
**Instructor:** Layne, Ann Elizabeth
**Description:** Student may contact the instructor or department for information.

#### CAPY 5623 Assessment and Treatment Interventions: Anxiety and Depression in Children and Adolescents
1 credit(s);
**Instructor:** Bloomquist, PhD, Michael Leonard
**Description:** Student may contact the instructor or department for information.

#### CAPY 5630 Workshop: Psychotherapy in Children and Adolescents
S-N only, 1 credit(s);
**Instructor:** August, Gerald
**Description:** Basic milestones in social development will be reviewed. Behaviors and mechanisms leading to peer acceptance/rejection during the childhood years will be discussed. Strategies for promoting social skill acquisition will be presented. Behavioral, social-cognitive and emotional-regulation intervention approaches will be illustrated. Class meets 8:30 am-4:00 pm, Saturday, December 8, 2001 in MoosT 2-620.

#### CPSY 5663 Building Friendships and Peer Relationship Skills: Interventions for Socially Rejected Children
S-N only, 1 credit(s);
**Instructor:** Reynolds, Arthur J.
**Description:** This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

#### CHN 1012 Beginning Modern Chinese
6 credit(s); prereq 1011 or equiv or instr consent; Credit will not be granted if credit has been received for: CHN 4002;
**Instructor:** Wang, Ling
**Description:** This is the second semester of the two-semester sequence in first-year Chinese. This course is designed for those who have completed Chinese 1011. Students with equivalent preparation may also register this course with the written permission of the instructor. In this course, students are introduced to additional modern standard Chinese (Mandarin) grammar, vocabulary, and sentence structures. As with Chinese 1011, the course consists of two lectures and five recitation classes each week. By the end of the semester, students should be able to recognize about 700 characters, write about 500 of them, conduct simple conversations on various daily topics, read texts on general topics, and write a short composition in Chinese. Textbook: Integrated Chinese, Level 1, Part 2 (Cheng & Tsui Company). Class time: 7 class hours/week
**Style:** 30% Lecture, 70% Discussion.
**Grading:** 10% mid exam, 15% final exam, 10% quizzes, 10% written homework, 10% attendance, 10% class participation, 10% laboratory evaluation, 10% other evaluation. Character writing, vocabulary quizzes, tests.
**Exam Format:** Listening, speaking, reading and writing

#### CHN 1016 Accelerated Intermediate Modern Chinese
5 credit(s); prereq 1012 or 1015; oral/aural skills or speaker of other Chinese dialect recommended credit will not be granted if credit received for: 3021 or 3022;
**Instructor:** Li, Chi-Ping
**Description:** As the second part Accelerated Modern Chinese course series, this course is the continuation of Chinese 1015. It is designed for students who are heritage speakers of Chinese and/or who can understand and speak modern Chinese. The purpose of this course is to help students improve their ability in listening, speaking, reading and writing Chinese. It particularly aims to help students develop more sophisticated vocabulary and enhance reading and writing ability in Chinese. As an accelerated course, we will cover the whole of second year Chinese within one semester, and the pace of the course will be approximately one lesson every three days. Students should be ready to take the Chinese GPT and/or take third year Chinese after this course.
**Style:** 40% Lecture, 50% Discussion, 10% Laboratory.
**Grading:** 15% mid exam, 15% final exam, 10% quizzes, 20% class participation, 40% other evaluation. 20% Homework; 5% Vocab Quizzes; 5% Composition; 10% Tests
**Exam Format:** Oral interview and performance, listening, reading, writing

#### CHN 3022 Intermediate Modern Chinese
5 credit(s); prereq 3021;
**Instructor:** Liu, Zhigang
**Description:** This course, the second segment of a two-semester sequence in intermediate modern Chinese, is intended for students who have completed Chinese 3021 or its equivalent. Students who have not completed Chinese 3021 or its equivalent but wish to register need to get permission from the primary instructor first. The course is to assist students in improving their ability to understand, speak, read, and write Chinese, and particularly, aims to help students use more advanced vocabulary and more complex sentence structures so that they can meet the standard of Chinese GPT. CHN 3022 covers lessons 11-20 of the textbook Integrated Chinese, Level 2 (2nd edition) by Yuehua Liu, Tao-chung Yao et al (Chen & Tsui Company). By the end of the semester, students are expected to be able to comprehend daily Chinese speech, conduct fairly sophisticated conversation in Chinese, read Chinese articles of some sophistication, and write compositions in Chinese for general communication purposes.
CHN 3032 Advanced Modern Chinese
4 credit(s); prereq 3031 or equiv or instr consent;
Instructor: Li Chi-Ping
Description: Description: This course is open to students who have successfully completed Chinese 3031 or an equivalent course. This course will focus on Chinese listening and reading skills, but will also include writing assignments and student-led discussions in Chinese. Readings from the textbook will be supplemented with online news articles and at least one Chinese film (To Live).
Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 20% mid exam, 20% final exam, 20% quizzes, 20% written homework, 5% attendance, 10% in-class presentation, 5% class participation.
Exam Format: multiple choice, fill the blanks, complete the sentences, etc.

CHN 3201 Chinese Calligraphy
2 credit(s);
Instructor: Zhang Hong
Description: This beginning course in Chinese Calligraphy takes place in small groups. Topics include introduction of various Chinese Calligraphy techniques and exposure to Chinese Calligraphy history. Students will be taught to develop a sense of self-cultivation through the art of Chinese Calligraphy. Practicing in the class will give students hands-on experience of proper use of Chinese brush and ink to write Chinese characters. Students will also have the opportunity to write Chinese Couplets, study Chinese poems, and learn the literature and meaning of the calligraphy projects. The Calligraphy book written by the instructor will be used.
Style: 30% Lecture, 10% Discussion. Classroom exercises, with instructor's coaching students individually.
Grading: 50% class participation, 50% other evaluation. Homework assignments and special projects.

CHN 3202 Intermediate Chinese Calligraphy
2 credit(s); prereq 3201 or instr consent;
Instructor: Zhang Hong
Description: This is the second semester of a two-semester sequence in Chinese Calligraphy. The course is designed for students who have successfully completed the course CHN 3201. Students with Chinese Calligraphy background may also enroll with the permission of the instructor. The knowledge of Chinese language is NOT required. Lectures include introducing various Chinese Calligraphy techniques and exposure to Chinese Calligraphy history and the cultural background in general. Students will be taught to develop a sense of self-cultivation through the art of Chinese Calligraphy. Practicing in the class will give students hands-on experience of proper use of Chinese brush and ink to write Chinese characters. Students will also have the opportunity to write Chinese Couplets, study Chinese poems, and learn the literature and meaning of the calligraphy projects. The Calligraphy book written by the instructor will be used.
Style: 30% Lecture, 5% Discussion, 30% class room practice with instructor's coaching students individually.
Grading: 50% class participation, 50% other evaluation. Homework assignments and special projects.

CHN 4000 Advanced Modern Chinese
3 credit(s); prereq 4007, grad student;
Instructor: Li Chi-Ping
Description: This course is open to students who have successfully completed Chinese 3021 or its equivalent course. This course will focus on Chinese listening and reading skills, but will also include writing assignments and student-led discussions in Chinese. Readings from the textbook will be supplemented with online news articles and at least one Chinese film (To Live).
Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 20% mid exam, 20% final exam, 20% quizzes, 25% written homework, 10% attendance, 5% class participation.
Exam Format: multiple choice, fill the blanks, complete the sentences, etc.
These works reflect both a changing Chinese society and Chinese intellectuals' efforts to awaken the general public and to bring China into the modern world. The lectures and discussions will focus on the use of the language, the contents of the texts, and the Chinese cultural and philosophical messages found in those works. The instructor hopes that this course will inspire students to further explore modern Chinese society and culture. The course will be taught in Modern Standard Chinese (Mandarin).

### CHN 5040 Readings in Chinese Texts

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-F only, 3</td>
<td>Prerequisite: 3-4 years of college Chinese or equivalent or instructor consent. Instructor: Zou, Zhen</td>
<td>Zou, Zhen</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Completion of Parts I and II of the State Board Examination:**
- **S-N only, 0 credits:**
- **Prerequisite:** BCE or equivalent degree or instructor consent.

### CHN 5393 Directed Study

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<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>1-5</td>
<td>Prerequisite: department consent and college consent. Instructor: Rouzer, Paul F</td>
<td>Rouzer, Paul F</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** 4042 or equivalent or instructor consent.

### CHN 5393 Directed Study

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<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>1-5</td>
<td>Prerequisite: department consent and college consent. Instructor: McGrath, Jason</td>
<td>McGrath, Jason</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** department consent and college consent.

### CHN 5393 Directed Study

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<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>1-5</td>
<td>Prerequisite: department consent and college consent. Instructor: Johnson, Ann M</td>
<td>Johnson, Ann M</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** 4042 or equivalent or instructor consent.

### CE 3001 Computer Applications in Civil Engineering I

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>A-F only, 3</td>
<td>Prerequisite: Math 1272, IT. Instructor: Barnes, Randal J</td>
<td>Barnes, Randal J</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** Math 1272, IT.

### CE 3111 CADD for Civil Engineers

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<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>S-N only, 2</td>
<td>Prerequisite: Math 3201. Instructor: Khazanovich, Lev</td>
<td>Khazanovich, Lev</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** Math 3201.

### CE 3401 Linear Structural Analysis

<table>
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<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-F only, 3</td>
<td>Prerequisite: Grade of at least C- in AEM 3031, IT. Instructor: Wojtkiewicz Jr, Steven F</td>
<td>Wojtkiewicz Jr, Steven F</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** Grade of at least C- in AEM 3031, IT.

### CE 3402 Construction Materials

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>A-F only, 3</td>
<td>Prerequisite: Grade of at least C- in AEM 3031, IT. Instructor: Khazanovich, Lev</td>
<td>Khazanovich, Lev</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** Grade of at least C- in AEM 3031, IT.

### CE 3501 Environmental Engineering

<table>
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<tr>
<th>Credits</th>
<th>Description</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-F only, 3</td>
<td>Prerequisite: Chem 1022, Phys 1302; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme. Instructor: Novak, Paige J</td>
<td>Novak, Paige J</td>
</tr>
</tbody>
</table>

**Course Information:**
- **Prerequisite:** Chem 1022, Phys 1302; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme.

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solid and hazardous waste treatment, air pollution, and water and wastewater treatment. A discussion of mass and energy balances and basic chemistry and microbiology is also presented.

**Style:** 75% Lecture, 25% Discussion.

**Grading:** 60% mid exam, 10% reports/papers, 10% quizzes, 20% problem solving.

**Exam Format:** Short answer and problems

### CE 3502 Fluid Mechanics
**A-F only, 4 credit(s); prereq [AEM 2012 or AEM 3031], Math 2373, [IF or ForP major];**

**Instructor:** Sotiropoulos,Fotis

**Description:** Student may contact the instructor or department for information.

### CE 3502 Fluid Mechanics
**A-F only, 4 credit(s); prereq [AEM 2012 or AEM 3031], Math 2373, [IF or ForP major];**

**Instructor:** Sotiropoulos,Fotis

**Description:** Student may contact the instructor or department for information.

### CE 4101W Project Management
**3 credit(s); prereq Upper div IT or construction management; Meets CLE req of Writing Intensive;**

**Instructor:** Eiler,Tim

**Description:** Survey of broad areas in engineering project management and economics. Project planning, scheduling, and controlling; budgeting, staffing, task and cost control; communicating with, motivating, leading, and managing conflict among team members; engineering economics.

### CE 4101W Project Management
**3 credit(s); prereq Upper div IT or construction management; Meets CLE req of Writing Intensive;**

**Instructor:** Andersen,Darrell

**Description:** Student may contact the instructor or department for information.

### CE 4102W Capstone Design
**A-F only, 4 credit(s); prereq 4301, 4401, 4501, 4502; Meets CLE req of Writing Intensive;**

**Instructor:** Eickenberg,Paul Thomas

**Description:** Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.

**Style:** 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project.

**Grading:** 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

### CE 4102W Capstone Design
**A-F only, 4 credit(s); prereq 4301, 4401, 4501, 4502; Meets CLE req of Writing Intensive;**

**Instructor:** Stefan,Heinz G

**Description:** Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.

**Style:** 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project.

**Grading:** 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

### CE 4180 Independent Study II
**1-4 credit(s), max credits 4, 4 repeats allowed; prereq instr consent;**

**Instructor:** STAFF

**Description:** Special studies in planning, design, or analysis of civil engineering systems. Individual lab research problems, literature studies, reports. Supervised by staff.

### CE 4190 Engineering Co-op Assignment
**S-N only, 2-6 credit(s), max credits 6, 1 repeat allowed; prereq Upper div CE, approval of department co-op director;**

**Instructor:** Guillow,John Stephen

**Description:** Industry work assignment.

**Grading:** 100% reports/papers.

### CE 4201 Highway Design
**A-F only, 3 credit(s); prereq CE or upper div GeoE or grad, 3202, 3201 or instr consent;**

**Instructor:** Johnson,Ann M

**Description:** Student may contact the instructor or department for information.

### CE 4211 Traffic Engineering
**3 credit(s); prereq 3201 or Stat 3021 or equiv;**

**Instructor:** Liu,Henry X.

**Description:** Student may contact the instructor or department for information.

### CE 4301 Soil Mechanics II
**A-F only, 3 credit(s); prereq [(3301 or GeoE 3301), upper div IT] or instr consent; Credit will not be granted if credit has been received for: GEOE 4301;**

**Instructor:** Drescher,Andrew

**Description:** Student may contact the instructor or department for information.

### CE 4311 Rock Mechanics
**A-F only, 4 credit(s); prereq 3301 or GeoE 3301 or instr consent;**

**Instructor:** Labuz,Joseph F

**Description:** Student may contact the instructor or department for information.

### CE 4352 Groundwater Modeling
**A-F only, 3 credit(s); prereq Upper div IT or grad, CE 4351, GeoE 4351 or instr consent; Credit will not be granted if credit has been received for: GEOE 4352;**

**Instructor:** Strack,Otto D

**Description:** Student may contact the instructor or department for information.

### CE 4401 Steel and Reinforced Concrete Design
**A-F only, 4 credit(s); prereq Grade of at least C- in 3401, concurrent enrollment 3402, [upper div IT or grad student];**

**Instructor:** Shield,Carol K

**Description:** Student may contact the instructor or department for information.
CE 4411 Matrix Structural Analysis  
A-F only, 3 credit(s); prereq [Grade of at least C- in [3101, 3401] or in a GSci programming course], [upper div IT or grad student] or instr consent;  
Instructor: Wojtkiewicz Jr, Steven F  
Description: Student may contact the instructor or department for information.

CE 4412 Reinforced Concrete Design II  
A-F only, 3 credit(s); prereq [Grade of at least C- in 4401, [upper div IT or grad student]] or instr consent;  
4411 recommended;  
Instructor: Schultz, Arturo Ernest  
Description: Student may contact the instructor or department for information.

CE 4414 Prestressed Concrete Design  
A-F only, 3 credit(s); prereq [Grade of at least C- in 4401, [upper div IT or grad student]] or instr consent;  
4412 recommended;  
Instructor: French, Catherine Ellen  
Description: Student may contact the instructor or department for information.

CE 4501 Hydrologic Design  
A-F only, 4 credit(s); prereq 3502;  
Instructor: Foufoula-Elci  
Description: Student may contact the instructor or department for information.

CE 4502 Water and Wastewater Treatment  
A-F only, 3 credit(s); prereq 3501;  
Instructor: LaPara, Timothy M  
Description: Student may contact the instructor or department for information.

CE 4512 Open Channel Hydraulics  
A-F only, 4 credit(s); prereq IT or grad, 3502 or instr consent;  
Instructor: Mohseni, Omid  
Description: Open channel flow theories, conservation of mass, momentum and energy principles, design of canals using the concepts of uniform flow and gradually varied flow conditions, design of culverts and analyzing flows through hydraulic structures, e.g. spillways and bridges, and an introduction to the principles of unsteady one-dimensional flows in open channel problems.  
Style: 75% Lecture, 20% Discussion, 5% Demonstration.  
Grading: 25% mid exam, 35% final exam, 20% reports/papers, 20% written homework.

CE 5180 Special Topics  
A-F only, 3 credit(s), max credits 4, 3 repeats allowed; prereq instr consent;  
Instructor: Marshall, Julian  
Description: Student may contact the instructor or department for information.

CE 5211 Traffic Engineering  
3 credit(s); prereq 3201, Stat 3021 or equiv;  
Instructor: Liu, Henry X.  
Description: Student may contact the instructor or department for information.

CE 5253 Asphalt and Portland Cement Concrete Materials  
4 credit(s); prereq [3402, upper div IT] or grad student or instr consent;  
Instructor: Marasteanu, Mihai  
Description: Student may contact the instructor or department for information.

CE 5542 Experimental Methods in Environmental Engineering  
A-F only, 3 credit(s); prereq 3501, Chem 1021, Chem 1022;  
Instructor: Arnold, Bill  
Description: Student may contact the instructor or department for information.

CE 5581 Water Resources: Individuals and Institutions  
A-F only, 3 credit(s); prereq instr consent;  
Instructor: Baker, Lawrence Alan  
Description: Student may contact the instructor or department for information.

CE 8022 Numerical Methods for Free and Moving Boundary Problems  
A-F only, 3 credit(s); prereq 8401 or instr consent;  
Instructor: Volier, Vaughan Richard  
Description: Student may contact the instructor or department for information.

CE 8200 Seminar: Transportation  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
Instructor: Liu, Henry X.  
Description: Student may contact the instructor or department for information.

CE 8202 Networks and Places: Transportation, Land Use, and Design  
A-F only, 4 credit(s);  
Instructor: Cao, Jason  
Description: Description Pick up a newspaper or watch the news and you’re likely to find a story about transportation problems in the U.S. metropolitan areas, most notably sprawl and congestion, and the multitude of problems that come with them? economic inefficiencies, global warming, air pollutants, oil dependency, social inequities, safety concerns, etc. Although most people agree on the problems, few agree on the solutions. As a result, policy makers and planners have proposed and implemented various land use and transportation policies including urban growth boundary, development fees, smart growth development, investments in rail systems, expansion of the freeway system, value pricing strategies, and so on. These policies would impact both transportation and land use because the latter two are inextricably linked. The construction of a new transportation facility, such as a freeway or a light rail line, is likely to influence the nature and location of new development in the corridor. The nature and location of development is likely to affect patterns of travel for residents of the area. An understanding of land use-transportation interactions is critical to the solution of transportation and its related problems confronting large metropolitan areas. This course will cover key theories and practices, research methodologies and findings, traditional and emerging policy approaches, and techniques for forecasting. My goal for the course is to introduce students to the essential concepts, influential thinkers, and important debates associated with the land use-transportation connection as a foundation for both academic and professional work in the field of urban and transportation planning. By the end of the course, students should ? Understand the theories behind land use and transportation interactions; ? Be familiar with the practices measuring transportation and land use; ? Understand steps in spatial evolution of cities related to transportation infrastructure; ? Understand urban transportation planning process; ? Understand impacts of transportation infrastructure on land use and impacts of land use on travel patterns; ? Understand various land use and transportation policy instruments, and their institutional and political barriers; ? Identify elements of the land use-transportation interaction that may be appropriate for future thesis/professional paper.

CE 8300 Seminar: Geomechanics  
S-N only, 1-3 credit(s), max credits 4, 4 repeats allowed;  
Credit will not be granted if credit has been received for: GEOE 8300;  
Instructor: Guzina, Bojan B  
Description: Student may contact the instructor or department for information.

CE 8302 Soil/Rock Plasticity and Limit Analysis  
A-F only, 4 credit(s); prereq IT grad student, CE 4300 or instr consent; Credit will not be granted if credit has been

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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
dominant cultures in the biblical world as diverse as the Sumerian and the Roman and as threatening and alluring as the Canaanite and Hellenistic. The course will investigate how various biblical writers adopted and reshaped their myths. Legends, sagas, rituals, laws, wisdom writings, biographies, and political ideologies to speak to their own time, to maintain their identity, and to fashion them into texts of consolation and hope in times of terror. The first ten weeks will deal with the context of the Hebrew Bible; the second five will focus on the New Testament and its world.

CNES 1003 World of Rome
3 credit(s); Prereq: Credit will not be granted if credit received for: CLASS 1007; Meets CLE req of Historical Perspective Core;
Instructor: Smith, Stephen
Description: "All roads lead to Rome" - The barbarians who flooded across imperial borders wanted not to destroy the Romans but to become Roman themselves. Two later empires called themselves Roman, and the rulers of three others called themselves Caesar. Britain saw itself as a warrior-goddess, (in a Roman helmet) bringing peace to an empire, while America set up a senate in a capitol decorated with the emblems of the Roman republic. For 1500 years after its "fall," Rome has fascinated the world, and even today we cannot escape its influence on politics, religion, law, engineering, architecture, literature, sports, popular culture. But who were the Romans and why are they so fascinating? This course will survey over 1000 years of Rome's history and culture, from its beginnings as a village near the Tiber through its rise to the status of the western world's first superpower, to the adoption of Christianity as the state religion and the beginning of a new era. We'll try to understand the Romans through their own writings and monuments, including such highlights as the Roman Forum, the Colosseum, Vergil's Aeneid, Juvenal's satires, the speeches of Cicero, and Suetonius' lives of the emperors. We'll also spend some time talking about signs of Roman influence in our own society and culture.
Style: 80% Lecture, 20% Discussion.
Exam Format: short answer and essay

CNES 1042 Greek and Roman Mythology
4 credit(s); Prereq: Credit will not be granted if credit received for: CLASS 1042, 1042H; Credit will not be granted if credit has been received for: CNES 1042H; Meets CLE req of Other Humanities Core;
Instructor: Woods, Heather A
Description: Student may contact the instructor or department for information.

CNES 1042 Greek and Roman Mythology
4 credit(s); Prereq: Credit will not be granted if credit received for: CLASS 1042, 1042H; Credit will not be granted if credit has been received for: CNES 1042H; Meets CLE req of Other Humanities Core;
Instructor: Cole, Spencer E
Description: An introduction to Greek and Roman mythology that will consider how ancient and modern cultures have used these myths to explore thorny issues like identity, marriage and families, the origin of the universe, sexuality, gender, and death. We will become acquainted with the gods, heroes, and monsters of classical mythology through our study of ancient sources and also survey modern methods of myth analysis. Lectures include slide presentations of myths in ancient, renaissance, and modern art.
Style: 50% Lecture, 50% Discussion.
Grading: 20% mid exam, 30% final exam, 20% reports/papers, 30% class participation.
Exam Format: Short answer/ Essay

CNES 1042H Honors Course: Greek and Roman Mythology
4 credit(s); Prereq: Honors or instr consent; Credit will not be granted if credit has been received for: CNES 1042; Meets CLE req of Other Humanities Core;
Instructor: Cole, Spencer E
Description: Student may contact the instructor or department for information.

CNES 1046 Technical Terminology for the Health Professions
3 credit(s); Prereq: Credit will not be granted if credit received for: CLAS 1148;
Instructor: Willey, Andrew James
Description: Student may contact the instructor or department for information.

CNES 3073 Roman Religion and Early Christianity
3 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Gustafson, Mark Timothy
Description: Religion was at the center of life in the ancient Roman world. Roman politics, society, art, literature, and history are imbued with religion. Topics studied will include: origins; polytheism; ritual sacrifice; religion & the state; emperor worship; various cults from the East; magic; astrology. Christianity was born and grew in that same world, ultimately becoming dominant. How did it happen? We will consider, among other matters: the nature of its development; monotheism; persecution & martyrdom; orthodoxy & heresy; imperial involvement; creeds & councils; hermits & monks. Significant emphasis is placed on the reading of primary sources/literature and inscriptions. We will also look at material evidence/buildings and works of art.

CNES 3102 Ancient Greece: The Golden Age of Athens
3 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Bolmarcich, Sarah M
Description: A consideration of the high point of Athenian culture and historical achievement (the fifth century BC). What made Athens great? Were there the seeds of her success sown, and what doomed her ultimately to failure? Readings from all the major fifth-century Athenian authors and consideration of archaeological and material evidence. We will cover in brief Athens before and after the fifth century BC as well. In the second half of the semester, students will be given a chance to role-play Athenian politicians of the fifth century BC.
Requirements: midterm, final, oral report(s); class participation.
Style: 60% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 35% final exam, 10% in-class presentation, 25% class participation.

CNES 3107 Age of Constantine the Great
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Nicholson, Oliver
Description: It is given to few deliberately to change the course of history. Constantine the Great (A.D. 306-37) was a conviction politician who adopted Christianity as his imperial religion and ended up making illegal the sacrifices which had been the core of Roman religion since time immemorial. The emperor seems to have thought the transition from paganism to Christianity would be easy; those who take this course will be able to consider how wrong he was. Constantine is at the centre of this course, but there is more to him, and to the course, than his religious revolution. We will range over the politics and culture of the years between about 250 and 363 A.D., considering the political and economic crisis of the Roman Empire in the 3rd century and its resolution by Constantine's immediate predecessors.
Style: lecture and discussion
Grading: 10% mid exam, 40% final exam, 50% reports/papers.
Exam Format: 'gobbets' - passages of ancient authors set for comment.
CNES 3172 Archaeology of Israel
3 credit(s); prereq will not be granted if credit received for: Clas 3086, Clas 3089, Clas 5089, ReIA 3086, ReIA 3089, ReIA 5086, ReIA 5089;
Instructor: Berlin, Andrea
Description: This course examines the archaeology and history of Palestine from the Israelite conquest (c. 1100 BCE) to the Moslem conquest (640 CE). We will integrate material remains with literary and historical sources and especially highlight the results of recent excavations in order to assess what life was like during the eras treated in both the Old and New Testaments. Special topics will include: religious life during the period of the Divided Monarchy, the spread of Greek cultural ideas, the building program of Herod the Great, the two revolts against Rome, and the development of early Christian holy sites. There are no exams; grades are based on four short (7-8 pgs) papers and participation in biweekly discussion sessions. The class is appropriate for advanced undergraduates interested in archaeology, history, and/or the Bible.

CNES 3951W Major Project
4 credit(s); prereq Three 3xxx ANE courses, [major in ANE or CNEA or ReIS], instr consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CNES 5013 Introduction to Roman Law
3 credit(s);
Instructor: Sheets, George A
Description: This course is intended to serve as a general introduction to Roman private law. The initial part of the semester will be spent introducing: (1) the sources of Roman private law, (2) private law procedure, with a focus on the formulary system of civil procedure, and (3) an overview of substantive law doctrines, and (4) the influence of Roman law on European legal traditions. We will then turn to more detailed consideration of one substantive area of Roman private law: property law. This topic will be explored by means of the “case-book” method: in-class discussion of issues arising from actual and hypothetical Roman fact situations taken from the Roman juristic literature. We will also read a trial speech by Cicero, in a lawsuit dealing with property law issues. Roman property law largely informs all the modern European civil law systems, and has also provided the source for a number of common law doctrines.
Style: 35% Lecture, 65% Discussion.
Grading: 30% mid exam, 50% final exam, 20% class participation. The problem solving assignments are the take-home exams
Exam Format: short answer and essay

CNES 5172 House, Villa, Tomb: Roman Art in the Private Sphere
3 credit(s); prereq Intro art history course or instr consent; Credit will not be granted if credit has been received for:
ARTH 5172;
Instructor: Schrunk, Ivancica D
Description: Student may contact the instructor or department for information.

CNES 5950 Aspects of Classical Culture: Artifact Analysis
1-3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Berlin, Andrea
Description: Archaeologists see artifacts as receptacles of encoded information about bygone times, much the same way that modern observers find meaning in the array of material objects with which we surround ourselves today. In this course we will learn how archaeologists analyze artifacts in order to decode that information. We will concentrate on archaeological remains from the ancient Near East and the Classical Mediterranean. We will learn basic archaeological techniques to identify, describe, classify, evaluate, and interpret various types of artifacts. This semester we will especially focus on woven weaving tools. We will study the various bone, metal, and clay tools from the rural site of Tel Anafa, in northern Israel. The results of our work will be collected and published in a volume of the site’s final report.

CNES 8794 Practicum for Future Faculty in Classics
S-N only, 1 credit(s); prereq Doctoral [major or minor] in Classical/Near Eastern studies;
Instructor: Krevans, Nita
Description: Student may contact the instructor or department for information.

**Clinical Laboratory Science**

**D-242 Mayo (Box 609 UMHC)**

CLS 5090 Special Laboratory Methods
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq instr consent;
Instructor: Wells, Carol Lee
Description: Student may contact the instructor or department for information.

CLS 5100 Virology, Mycology, and Parasitology for Medical Technologists
A-F only, 2 credit(s); prereq microbiology course with lab, biochem course;
Instructor: Wells, Carol Lee
Description: Student may contact the instructor or department for information.

CLS 5120 Seminar: Clinical Laboratory Science
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq instr consent;
Instructor: Panoskalitsis-Mortari PhD, Angela
Description: Student may contact the instructor or department for information.

CLS 5121 Journal Presentations
S-N only, 1 credit(s), max credits 2; prereq 1st yr CLS grad student;
Instructor: Panoskalitsis-Mortari PhD, Angela
Description: Student may contact the instructor or department for information.

CLS 5125 Practicum Teaching
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq instr consent;
Instructor: Tsai, Michael Y
Description: Student may contact the instructor or department for information.

CLS 5202 Hematology II
A-F only, 3 credit(s); prereq 5201 or CLSP 4201 or instr consent;
Instructor: Swinhart, Cheryl D
Description: Student may contact the instructor or department for information.

CLS 5203 Hemostasis
A-F only, 1 credit(s); prereq 5201 or CLSP 4201 or instr consent;
Instructor: Swinhart, Cheryl D
Description: Student may contact the instructor or department for information.

CLS 5304 Clinical Chemistry II: Lecture
A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course, instr consent;
Instructor: Zitterkopf, Nicole Lee
Description: Student may contact the instructor or department for information.

CLS 5305 Clinical Chemistry II: Laboratory

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course, instr consent;
Instructor: Zitterkopf,Nicole Lee
Description: Student may contact the instructor or department for information.

CLSP 5501 Introduction to Transfusion Medicine
A-F only, 2 credit(s); prereq instr consent;
Instructor: George,Joanna L
Description: Student may contact the instructor or department for information.

CLSP 5502 Introduction to Transfusion Medicine: Laboratory
A-F only, 2 credit(s); prereq instr consent;
Instructor: George,Joanna L
Description: Student may contact the instructor or department for information.

CLSP 5768 Advanced Hematology
A-F only, 5-10 credit(s), max credits 30, 6 repeats allowed;
prereq instr consent;
Instructor: Larsen,Karen B
Description: Student may contact the instructor or department for information.

CLSP 5864 Research Seminar
S-N only, 1 credit(s), max credits 10, 10 repeats allowed;
prereq instr consent;
Instructor: Armstrong,Sandra K
Description: Student may contact the instructor or department for information.

CLSP 5865 Departmental Seminar
S-N only, 1 credit(s), max credits 10, 10 repeats allowed;
prereq instr consent;
Instructor: Furcht,Leo T
Description: Student may contact the instructor or department for information.

CLSP 8193 Advanced Topics in Clinical Chemistry
2 credit(s); prereq instr consent;
Instructor: Tsai,Michael Y
Description: Student may contact the instructor or department for information.

CLSP 8194 Research on Clinical Laboratory Problems
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Tsai,Michael Y
Description: Student may contact the instructor or department for information.

CLSP 4088 Applied Diagnostic Microbiology
S-N only, 2 credit(s); prereq 4102, 4101 enrolled CLSP student, instr consent;
Instructor: Brennecke,Patricia Johnson
Description: Student may contact the instructor or department for information.

CLSP 4089 Specialty Rotation
S-N only, 1 credit(s); prereq Completion of MedT preclinical professional courses, enrolled MedT student, instr consent;
Instructor: Brennecke,Patricia Johnson
Description: Student may contact the instructor or department for information.

Clinical Laboratory Sciences Program
15-170 Phillips Wangensteen Bldg (MMC 711)

CLSP 4092 Honors Program: Laboratory Methods
3 credit(s); prereq instr consent;
Instructor: Wells,Carol Lee
Description: Student may contact the instructor or department for information.

CLSP 4101 Virology, Mycology, and Parasitology for Clinical Laboratory Scientists
A-F only, 2 credit(s); prereq One microbiology course with lab, one biochem course, enrolled CLSP student, instr consent;
Instructor: Wells,Carol Lee
Description: Student may contact the instructor or department for information.

CLSP 4202 Hematology II
A-F only, 3 credit(s); prereq [4201 or 5201], enrolled CLSP student, instr consent;
Instructor: Swinehart,Cheryl D
Description: Student may contact the instructor or department for information.

CLSP 4202 Hematology II
A-F only, 3 credit(s); prereq [4201 or 5201], enrolled CLSP student, instr consent;
Instructor: Swinehart,Cheryl D
Description: Lecture and laboratory course covering the morphology of normal and abnormal blood cells. Target audience: Senior medical technology students.
Style: 66% Lecture, 33% Laboratory.
Exam Format: multiple choice

CLSP 4203 Hemostasis
A-F only, 1 credit(s); prereq [4201 or 5201], enrolled CLSP student, instr consent;
Instructor: Swinehart,Cheryl D
Description: Lecture and laboratory course covering hemostasis. Theory of hemostasis and laboratory tests of plasma and platelets will be discussed. Target audience: Senior medical technology students.
Style: 100% Lecture.
Exam Format: multiple choice

CLSP 4263 Comparative Hemostasis
A-F only, 1 credit(s);
Instructor: Swinehart,Cheryl D
Description: Lecture course covering hemostasis in humans. Theory of hemostasis and laboratory tests of plasma and platelets will be discussed. Target audience: Veterinary Medicine students.
Style: 100% Lecture.
Exam Format: multiple choice

CLSP 4304 Clinical Chemistry II: Lecture
A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course;
Instructor: Zitterkopf,Nicole Lee
Description: Student may contact the instructor or department for information.

CLSP 4305 Clinical Chemistry II: Laboratory
A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course;
Instructor: Spannaus-Martin,Donna J
Description: Student may contact the instructor or department for information.

CLSP 4305 Clinical Chemistry II: Laboratory
A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course;
Instructor: Zitterkopf,Nicole Lee
Description: Student may contact the instructor or department for information.

CLSP 4501 Introduction to Transfusion Medicine
A-F only, 2 credit(s);
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

CGSC 8000 Seminar: Philosophy of the Cognitive Sciences
3 credit(s), max credits 6; prereq Grad cog sci minor or instr consent; Credit will not be granted if credit has been received for: PHIL 8640;
Instructor: Savage, C Wade
Description: Student may contact the instructor or department for information.

CGSC 8001 Proseminar in Cognitive Science
S-N only, 2 credit(s); prereq Grad cog sci minor or instr consent;
Instructor: Fletcher, Charles R
Description: Student may contact the instructor or department for information.

CGSC 8041 Cognitive Neuroscience
A-F only, 4 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: NSC 8041;
Instructor: Chalee Ph.D, Matthew Valentine
Description: Student may contact the instructor or department for information.

CGSC 8410 Perspectives in Learning, Perception, and Cognition
S-N only, 2 credit(s), max credits 24, 12 repeats allowed;
Instructor: Georgopoulos, Apostolos P
Description: Student may contact the instructor or department for information.

Collaborative Arts Interdisciplinary Program
E211 Regis Center for Art

COLA 1521 Collaboratory I: Collaborative Research Laboratory
S-N only, 1 credit(s), max credits 2;
Instructor: Momeni, Ali
Description: The Collaboratory will be an informal way to discuss ongoing projects, collaborative creativity, interdisciplinarity, and other topics of concern to students and faculty. The idea behind this course, required of all Collaborative Arts majors, is to build a sense of community within the program. We envision a freewheeling, brown bag lunchtime meeting of one hour per week. The grade will be based solely on participation.

COLA 3001 Art of Collaboration 2
A-F only, 3 credit(s);
Instructor: Sommers, Michael J
Description: Through a series of embodied studies and concrete problematic situations students will focus on the individual and collaborative process as a method for revealing form. Emphasis will be on developing and defining the individual and collaborative process as a method to synthesize material from a wide range of sources and disciplines (visual art, music, theatre and dance) to create interdisciplinary and collaborative thinking, and to expand personal boundaries and intersections where multiple art forms and practices converge. Students will collaborate to co-author and co-create a series of works for in-class and public performance with lectures by practicing guest artists as well as exploration of the cultural landscape of the Twin Cities.

COLA 3001 Art of Collaboration 2
A-F only, 2 credit(s);
Instructor: Momeni, Ali
Description: Through a series of embodied studies and concrete problematic situations students will focus on the individual and collaborative process as a method for revealing form. Emphasis will be on developing and defining the individual and collaborative process as a method to synthesize material from a wide range of sources and disciplines (visual art, music, theatre and dance) to create interdisciplinary and collaborative thinking, and to expand personal boundaries and intersections where multiple art forms and practices converge. Students will collaborate to co-author and co-create a series of works for in-class and public performance with lectures by practicing guest artists as well as exploration of the cultural landscape of the Twin Cities.
COLA 4950 Topics in Collaborative Arts: Video Technology
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent;
Instructor: Gwinup, Martin Bruce
Description: By the end of this course students should understand and be comfortable with common approaches to lighting, camera operation, audio and production practices for video production. This course is based both in studio as well as in the field. Specifics of video protocols and formats will be discussed. The creative discussions in the class will include aesthetics, continuity and composition. Students understanding of the topics and techniques discussed in this course will culminate in their final project. This course is open to any student on campus who has an interest in video or film production.

COLA 4950 Topics in Collaborative Arts: Experimental Video
4 credit(s), max credits 32, 8 repeats allowed; prereq instr consent;
Instructor: Lukkas, Lynn Tjernan
Description: This course will focus on experimental forms of video art, including experimental non-narrative video, video installation, and video combined with live art works. Students will have the opportunity to explore the aesthetic and conceptual intersections between Film and Art while producing original works that explore contemporary digital technologies alongside super 8 filmmaking. Presentations and screenings of experimental film and video art work from 1900 to the present will be included.

COLA 5950 Topics in Collaborative Arts: Performance Art & Installation
4 credit(s), max credits 32, 8 repeats allowed; prereq instr consent;
Instructor: Lukkas, Lynn Tjernan
Description: This course will collaborate with performance/theater artist David Gordon in his COLA course and new work, "Un-Civil Wars" to be presented at the Walker Art Center in March 2009; and with Ain Gordon's new work "The Storm Show." Student will investigate "Live Art" practices, and create original works that integrate performance, installation, media arts and socially engaged art practices. Presentations and screenings of hybrid art forms introduced by Dada movement in 1920's, continued by Fluxus movement in 1950's, to today's contemporary Live Art and Performance artists will be included.

COLA 5950 Topics in Collaborative Arts: Sound Design for Performance
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent;
Instructor: Gwinup, Martin Bruce
Description: Sound Design covers many areas. We will look specifically as the areas of Sound Design as it relates to live performance. We will explore topics such as psychoacoustics, audience response, spatial acoustics, music history/research, and sound manipulation. the students will be expected to utilize the departmental sound recording studio to create sound projects and sound designs. We will also discuss and explore approaches to sound design both from scripted works as well as created works. Prerequisite for this course is TH4555 Audio Technology. TH4556 Digital Audio and MIDI for Live Performance, is highly recommended but not required before taking this course
Style: 30% Lecture, 30% Discussion, 40% Laboratory.
Grading: 10% reports/papers, 40% special projects, 10% in-class presentation, 10% class participation, 20% laboratory evaluation, 10% problem solving.

COLA 5950 Topics in Collaborative Arts: Free Jazz - From Structure to Gesture
4 credit(s), max credits 32, 8 repeats allowed; prereq instr consent;
Instructor: Mazzola PhD, G. Gerino
Description: Free Jazz-From Structure to Gesture This course discusses the musical form of free jazz comprising flow expressivity, collaborative interaction, and gestural communication from a theoretical and practical point of view. We present major representatives such as Ornette Coleman, Cecil Taylor, Archie Shepp, The Art Ensemble of Chicago, and John Coltrane and also work in performance student groups in order to learn and to work out a competence in such music and behavior. We shall also invite working free jazz musicians (Sironey, Jeff Kaiser, Heinz Geisser) to the course for a rehearsal workshop, a CD recording session at the Wild Sound Studio, and conversations with the students. The sound material includes classical recordings, but also most recent free jazz CDs and DVDs.

COLA 5950 Topics in Collaborative Arts: Art for the People, Art on Wheels
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent;
Instructor: Momeni, Ali
Description: Title: Art for the People, Art on Wheels This course is the way for students to get involved with the public art group: Minneapolis Art on Wheels: Minneapolis Art on Wheels is an on-going public arts initiative. We leverage advanced mobile technology to bring socially engaged art and technology into diverse communities. We aim to use the scale and diversity of access to our exhibitions to make the Twin Cities an international leader in socially engaged and technologically enhanced creative projects: Scale, in that we are able to produce moving images up to several hundred feet, outdoors, in public spaces; and diversity in that our emphasis of mobile devices (i.e. cellular phones) and gestural interaction with media (e.g. laser tag, real-time video tracking and gesture recognition) allows a wide audience to participate.

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interact with mobile media. The project engages students in creative use of technology and materializes this engagement in the form of community outreach and temporary public art.

### Important references: MAW: [http://minneapolisartonwheels.org/](http://minneapolisartonwheels.org/)

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### College of Food, Agri & Natural Resource Sciences

**CFAN 1501 Biotechnology, People, and the Environment**

**A-F only, 3 credit(s); Meets CLE req of Environment Theme**

**Instructor:** Young, Nevin Dale  
**Description:** Biotechnology, People and the Environment (CFAN 1501; Spring-Semester; 3 credits) is a non-technical introduction to biotechnology, genetic engineering, and their impact on agriculture, food, medicine and the environment. The class does not have formal lab or recitation sections, but it does include discussions and demonstrations. CFAN 1501 fulfills the Environment theme of the Council on Liberal Education. Along with readings, CFAN 1501 requires: 1) internet-based learning activities, 2) a personal biotechnology journal, and 3) a public perception survey on biotechnology. CFAN is organized into four blocks. The course begins with a brief overview/introduction to genetic engineering technology, followed by the biotechnology of plants (including genetically modified foods and crops), biotechnology of microbes (including bioremediation, biocontrol, and food microbiology), and the biotechnology of animals and medicine (including biopharmaceuticals, genetic screening, genome sequencing, animal cloning, bioterrorism, and genetic therapy).  
**Style:** 65% Lecture, 10% Discussion, 15% Small Group Activities, 5% Demonstration, 5% Guest Speakers.  
**Grading:** 40% mid exam, 20% final exam, 15% special projects, 5% quizzes, 20% journal. There are generally three exams during the semester and each is worth 20%.  
**Exam Format:** Exams are generally 25% multiple choice; 25% matching; 25% short answer; 25% essay question.

**CFAN 1902 Topics: Freshman Seminar: American Indian Ways of Knowing the Environment**  
**3 credit(s); prereq freshman; Meets CLE req of Cultural Diversity Theme**  
**Instructor:** Bellcourt EdD, Mark A  
**Description:** Student may contact the instructor or department for information.

**CFAN 3000 Directed Studies in International Agriculture**  
**A-F only, 2-4 credit(s), max credits 8, 3 repeats allowed; prereq instr consent; Instructor:** Staff  
**Description:** Student may contact the instructor or department for information.

**CFAN 3000H Honors Topics in CFANS: Food & Agri from Cairo to Cape Town at 10mph**  
**A-F only, 2-3 credit(s), max credits 8; prereq Honors; Instructor:** Porter, Paul M  
**Description:** This course provides students with an introduction to food, agriculture and agroecosystems in 10 African countries (Egypt, Sudan, Ethiopia, Kenya, Tanzania, Malawi, Zambia, Botswana, Namibia, and South Africa). From 10 January until 9 May Dr. Porter will travel by bicycle through these countries starting in Cairo and ending in Cape Town. As he travels he will be observing the food, agriculture and agroecosystems and relate these observations back to the class. For more information on the bike tour and route see [www.tourdafrique.com](http://www.tourdafrique.com). The class will be taught by teaching assistant Margaret Mangan, and involves a series of faculty guest speakers and videos. To the extent possible, Dr. Porter will provide written and audio-blogs of his experiences, focusing on food, agriculture and agroecosystems (and to a lesser extent the ride itself). He will have limited email access, but hopes to communicate with students that way, as well as with some direct phone conversations to the class. His blogs will include 1) daily beginning and ending locations, 2) weather conditions, 3) food he ate and what the local population eats, 4) a daily assessment of the agroecosystems, 5) an assessment of the water situation and climate, 6) an assessment of the culture, 7) a conversation of the day, 8) a sight of the day, and 9) a thought/reflection of the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as [http://paulporter.wordpress.com](http://paulporter.wordpress.com)). The target audience includes students at any grade level from any college who have an interest in 'coming along' for the ride and learning more about food, agriculture and agroecosystems in a sliver of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.  
**Style:** 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 40% Guest Speakers, 10% Web Based.  
**Grading:** 20% mid exam, 10% quizzes, 10% written homework, 20% additional semester exams, 10% journal, 20% reflection paper, 10% class participation.  
**Exam Format:** Short answer, multiple choice

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**CFAN 3001 Pests and Crop Protection**  
**A-F only, 3 credit(s); prereq Biol 1009 or equiv or instr consent; Instructor:** Steffenson, Brian Joel  
**Description:** Student may contact the instructor or department for information.

**CFAN 3100H Honors Experience**  
**A-F only, 2-3 credit(s), max credits 6; prereq instr consent; Instructor:** Staff  
**Description:** Student may contact the instructor or department for information.

**CFAN 3201 Strategic Career Planning**  
**A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201; Instructor:** Newberg, Sara Nagel  
**Description:** Want to get ahead of the competition when searching for jobs and internships? This 1 credit course is ideal for undergraduate and graduate students in any major seeking internships and/or full time work. This course covers topics that will prepare you for your job/internship search including skills assessment, resume writing, interviewing, job searching and salary negotiation.  
**Style:** 65% Lecture, 10% Discussion. Class Activities  
**Grading:** 25% reports/papers, 50% special projects, 10% class participation, 15% other evaluation. inventories & class activities

**CFAN 3201 Strategic Career Planning**  
**A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201; Instructor:** Hruska, Elizabeth Suzanne  
**Description:** Student may contact the instructor or department for information.

**CFAN 3201 Strategic Career Planning**  
**A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201; Instructor:** Hanson, Matthew R  
**Description:** Student may contact the instructor or department for information.

**CFAN 3201 Strategic Career Planning**  
**A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201; Instructor:** Joyce, Child, Lisa Dewey  
**Description:** Student may contact the instructor or department for information.

**CFAN 3480 Topics in CFANS: Food & Agri from Cairo to Cape Town at 10mph**  
**2-3 credit(s), max credits 8; Instructor:** Porter, Paul M
Description: This course provides students with an introduction to food, agriculture and agroecosystems in 10 African countries (Egypt, Sudan, Ethiopia, Kenya, Tanzania, Malawi, Zambia, Botswana, Namibia, and South Africa). From 10 January until 9 May Dr. Porter will travel by bicycle through these countries starting in Cairo and ending in Cape Town. As he travels he will be observing the food, agriculture and agroecosystems and relate these observations back to the class. For more information on the bike tour and route see www.tourdafrique.com. The class will be taught in small anterior and active participation. The class involves a series of faculty guest speakers and videos. To the extent possible, Dr. Porter will provide written and audio-blogs of his experiences, focusing on food, agriculture and agroecosystems (and to a lesser extent the ride itself). He will have limited email access, but hopes to communicate with students that way, as well as with some direct phone conversations to the class. His blogs will include 1) daily beginning and ending locations, 2) weather conditions, 3) food he ate and what the local population eats, 4) a daily assessment of the agroecosystems, 5) an assessment of the water situation and climate, 6) an assessment of the culture, 7) a conversation of the day, 8) a sight of the day, and 9) a thought / reflection of the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as http://paulporter.wordpress.com).

The target audience includes students at any grade level from any college who have an interest in ‘coming along’ for the ride and learning more about food, agriculture and agroecosystems in a river of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.

Description: This course provides students with an introduction to food, agriculture and agroecosystems (and to a lesser extent the ride itself). He will have limited email access, but hopes to communicate with students that way, as well as with some direct phone conversations to the class. His blogs will include 1) daily beginning and ending locations, 2) weather conditions, 3) food he ate and what the local population eats, 4) a daily assessment of the agroecosystems, 5) an assessment of the water situation and climate, 6) an assessment of the culture, 7) a conversation of the day, 8) a sight of the day, and 9) a thought / reflection of the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as http://paulporter.wordpress.com). The target audience includes students at any grade level from any college who have an interest in ‘coming along’ for the ride and learning more about food, agriculture and agroecosystems in a river of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.

Style: 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 40% Guest Speakers, 10% Web Based.

Grading: 20% mid exam, 10% quizzes, 10% written homework, 20% additional semester exams, 10% journal, 20% reflection paper, 10% class participation.

Exam Format: Short answer, multiple choice

CFAN 3480 Topics in CFANS: Discovering Majors and Careers
1 credit(s), max credits 8;
Instructor: Frederickson, Heather Nagle

Description: Knowing what you want to study and eventually do professionally can be an overwhelming task for ANY college student. In this course we will review the five stages in the career discovery process (self-assessment, exploration, decision making, experiencing, and implementing) to help you determine the best next steps in your career. In the self-assessment portion of the class, you will take an honest look at your motivated skills, interests, values, strengths and personality. During the exploratory phase, you will investigate various major, industry and career options that seem to be in line with what is important to you. You will have a chance to not only gather information from print and electronic resources, but also from people in the real world of work. This class will also give you the tools and resources necessary to decide on, experience, and implement your chosen major and discover industry and career options. By learning this process you will hopefully be better prepared to declare a major and focus on a career area. Understanding this process will take some pressure off of you, allowing you to better manage your career throughout your life and make future career transitions easier.

Style: 40% Lecture, 20% Discussion, 30% Small Group Activities, 10% Guest Speakers.

Grading: 30% reports/papers, 40% special projects, 20% reflection paper, 10% class participation.

CFAN 3500 International Field Studies Seminar: Thailand
A-F only, 3 credit(s), max credits 6; prerequisite instructor consent;
Instructor: Smith, James L David

Description: Student may contact the instructor or department for information.

CFAN 3500 International Field Studies Seminar: Jamaica
A-F only, 3 credit(s), max credits 6; prerequisite instructor consent;
Instructor: Vreyens, John Robert

Description: This class is taught at Greenshade Estate, located in St. Mary’s Parish on the north coast. Greenshade is a 560 ha organic ranch which produces tropical fruits and vegetables as well as Jamaican beef cattle. Students stay on the Estate and in a small hotel in the nearby town of Robins Bay. Cultural activities guided by Jamaican liaisons are part of the class. The final two days include snorkeling at the Discovery Bay marine lab and one-day, two-nights respite at an all-inclusive resort in Montego Bay before returning to the States. The objectives of the course are to help students understand tropical land use/water quality relationships through hands-on experiences in Jamaica, and to gain an appreciation of the important role that sustainable land management and development can play in solving the problems of the developing world. The focus of the course is discovery. Teams will measure along transects to understand the quality of, and human impacts to the beach and the coral reef. We analyze fish, substrate and aquatic insects in streams and rivers. Throughout the class, the group will talk indefinitely about what we saw and learned, and connect our learning to environment and economic concerns. Students must be able to swim, to walk and work in rigorous outdoor settings, and be willing to work in groups. Estimated costs $2,750. Dr. Jim Perry leads this group in Jamaica. Dates of travel are: January 3 to 15, 2008.

CFAN 3500 International Field Studies Seminar: Bahamas
A-F only, 2 credit(s), max credits 6; prerequisite instructor consent;
Instructor: Vreyens, John Robert

Description: This course will provide participants with a brief overview of Thailand's culture and conservation challenges and then focus on applying a set of well-developed field survey and conservation tools. The course begins with a 2-day trip up Thailand's central waterway on a live-aboard barge designed for research and education. The group then travels to Thailand's premier conservation research site which will provide a comfortable home base for daily field activities and a launching point for a wilderness trip to more remote parts of western Thailand. Many activities will revolve around and contribute to a long-term tiger conservation project of which UMN has been a partner since 2001. Specific activities will include camera trapping techniques, prey assessment methods and radio-telemetry approaches to the study of large mammals. Estimated costs $3,000. Dr. Dave Smith and Ms. Pete Cutter lead this group to Thailand. Dates of travel are: December 27 to January 18, 2008.

CFAN 3500 International Field Studies Seminar: Switzerland
A-F only, 3 credit(s), max credits 6; prerequisite instructor consent;
Instructor: Vreyens, John Robert

Description: Based at the Agricultural College Plantahof in Chur, this course explores several different types of farming operations in Switzerland. The agriculture systems that will be visited include animal, orchards, vineyards and vegetable production both in valleys and in the mountains. Opportunities will be provided to visit cooperatives, a cheese factory and meet with local farmers and representatives in Landquart. Tourism abounds in the region alongside agriculture. Students will be able to experience a mountain hike, climb a glacier and even take the longest toboggan ride in the world—nearly 3 km long! All students will have a home stay with farmers in locations in the Alps near the summer pastures for cattle. This course includes visits to the historic cities of Chur, Zurich and Bern. Estimated cost is $3,400. Ms. Julie Tesch lead the group. Dates of travel are: May 17 to 25, 2008 tentative.

CFAN 3500 International Field Studies Seminar: Costa Rica
A-F only, 3 credit(s), max credits 6; prerequisite instructor consent;
Instructor: Vreyens, John Robert

Description: This agro-forestry course offers a balance between scientific background information and hands-on experiences. The environments explored range from high- to low-elevation forests and from conventional high-input farms to sustainable organic and bird-friendly coffee, cocoa and banana plantations. Students learn about payment for environmental services, certification of forest products, ecotourism, and other
environmental programs using coffee systems and natural and managed forests as examples. Estimated costs $2,800. Dr. Dean Current leads this group to Costa Rica. Dates of travel are: January 6 to January 20, 2008.

CFAN 3500 International Field Studies Seminar: Bahamas A-F only, 2 credit(s), max credits 6; prereq instr consent; Instructor: Vreyens, John Robert Description: This course will provide participants with a brief overview of Thailand’s culture and conservation challenges and then focus on applying a set of well-developed field survey and conservation tools. The course begins with a 2-day trip up Thailand’s central waterway on a live-aboard barge designed for research and education. The group then travels to Thailand’s premier conservation research site which will provide a comfortable home base for daily field activities and a launching point for a wilderness trip to more remote parts of western Thailand. Many activities will revolve around and contribute to a long-term tiger conservation project of which UMN has been a principle partner. Specific activities will include camera trapping techniques, prey assessment methods and radio-telemetry approaches to the study of large mammals. Estimated costs $3,000. Dr. Dave Smith and Mr. Pete Cutter lead this group to Thailand. Dates of travel are: December 27 to January 18, 2008.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 4009W Undergraduate Senior Thesis: Science in Agriculture A-F only, 1-6 credit(s), max credits 12, 12 repeats allowed; prereq jr or sr major in ScAg, instr consent; Meets CLE req of Writing Intensive; Instructor: STAFF Description: Student may contact the instructor or department for information.

CFAN 5500 International Field Studies Seminar: Thailand A-F only, 3 credit(s), max credits 6; prereq instr consent; Instructor: Smith, James L David Description: Student may contact the instructor or department for information.

CFAN 5500 International Field Studies Seminar: Thailand A-F only, 3 credit(s), max credits 6; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 5500 International Field Studies Seminar: Switzerland A-F only, 3 credit(s), max credits 6; prereq instr consent; Instructor: Vreyens, John Robert Description: Student may contact the instructor or department for information.

CFAN 5500 International Field Studies Seminar: Costa Rica A-F only, 3 credit(s), max credits 6; prereq instr consent; Instructor: Vreyens, John Robert Description: This agro-forestry course offers a balance between scientific background information and hands-on experiences. The environments explored range from high- to low-elevation forests and from conventional high-input farms to sustainable organic and bird-friendly coffee, cocoa and banana plantations. Students learn about payment for environmental services, certification of forest products, ecotourism, and other environmental programs using coffee systems and natural and managed forests as examples. Estimated costs $2,800. Dr. Dean Current leads this group to Costa Rica. Dates of travel are: January 6 to January 20, 2008.

CFAN 5500 International Field Studies Seminar: Jamaica A-F only, 3 credit(s), max credits 6; prereq instr consent; Instructor: Vreyens, John Robert Description: Based at the Agricultural College Plantahof in Chur, this course explores several different types of farming operations in Switzerland. The agriculture systems that will be visited include animal, orchards, vineyards and vegetable production both in valleys and in the mountains. Opportunities will be provided to visit cooperatives, a cheese factory and meet with local farmers and representatives in Landquart. Tourism abounds in the region alongside agriculture. Students will be able to experience a mountain hike, climb a glacier and even take the longest toboggan ride in the world--nearly 3 km long! All students will have a home stay with farmers in locations in the Alps near the summer pastures for cattle. This course includes visits to the historic cities of Chur, Zurich and Bern. Estimated cost is $3,400. Ms. Julie Tesch leads the group. Dates of travel are: May 17 to 25, 2008 tentative.

CFAN 5500 International Field Studies Seminar: Costa Rica A-F only, 3 credit(s), max credits 6; prereq instr consent; Instructor: Current, Dean Alan Description: This agro-forestry course offers a balance between scientific background information and hands-on experiences. The environments explored range from high- to low-elevation forests and from conventional high-input farms to sustainable organic and bird-friendly coffee, cocoa and banana plantations. Students learn about payment for environmental services, certification of forest products, ecotourism, and other
CLA 2005 Introduction to Liberal Education and Responsible Citizenship
A-F only, 3 credit(s); prereq 1005;
Instructor: Williams, Andrew L
Description: Student may contact the instructor or department for information.

Communication Studies
225 Ford Hall

COMM 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 1101H Honors: Introduction to Public Speaking
3 credit(s); prereq honors; Credit will not be granted if credit has been received for: WRIT 1223;
Instructor: Scott, Robert L
Description: This course will be quite different from other sections of Comm 110l. It is a course for honors students. The course will not use the textbook listed for 110l. It will use a few items in a course packet. Those will be short but we shall use them intensely. Although a course in extemporaneous speaking at least an equal amount of writing will be expected. Speaking and writing will be of about equally weighed in determining final grades. There will be no tests. In a sense every class period will constitute a test in a sense, and participation in class will be expected and weighed. The instructor is a professor emeritus, so he is old. He has taught for more than 50 years in five different universities. He has taught honors seminars for upper division students at least a dozen times, but he has never taught a lower division course for honors students. The course this fall will be a new experience for him.
Style: 15% Lecture, 30% Discussion, 55% Student Presentation.

COMM 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 1681W Rhetorical Fictions and 20th Century Conflicts
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Walzer, Arthur Eugene
Description:
Style: 35% Lecture, 5% Film/Video, 60% Discussion.
Grading: 50% reports/papers, 25% quizzes, 25% class participation.

COMM 3110 Topics in Speech-Communication: Famous Speeches
3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Campbell, Karlyn Kohrs
Description: Student may contact the instructor or department for information.

COMM 3110 Topics in Speech-Communication: History of Hollywood
3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Campbell II, John Edward
Description: This course will chart the changes and continuities of the American film industry from the days of the nickelodeon, through the Golden Age of Hollywood, and into the so-called "Information Age" of today. In particular, this course examines the cultural, political, economic, and technological forces that have shaped the three fundamental aspects of the American film industry: production, distribution, and exhibition. Drawing upon scholarship from both critical cultural studies and political economy of communication, this course takes a comprehensive look at film as a medium, an industry, an art form, and a cultural institution. The course will also introduce students to important theoretical and technical concepts to help in understanding film as both a commodity and a cultural artifact. The first half of the course will chart the historical development of the American film industry, with a particular focus on that institution which has dominated American cinema, Hollywood. The second half of the course will focus on how the contemporary American film industry functions in an increasingly global market. The course will explore important concepts surrounding the study of film, including intertextuality, reflexivity, auteur theory, representation, media convergence, and media consolidation. The ultimate goal of the course is not only to provide a more comprehensive understanding of film as a medium and as a social practice, but to provide students with the practical and theoretical understandings essential in becoming critical consumers of media content.
Style: 40% Lecture, 40% Film/Video, 20% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% additional semester exams.

COMM 3110 Topics in Speech-Communication: Famous Speeches
3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Helwich, David A
Description: Student may contact the instructor or department for information.

COMM 3190H Honors Course: Research Seminar in Communication
A-F only, 3 credit(s), max credits 6; prereq Honors candidate in comm, instr consent, dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3201 Introduction to Electronic Media Production
A-F only, 4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3204 Advanced Electronic Media Production
A-F only, 4 credit(s); prereq 3201 or instr consent;
Instructor: Gregg, Peter Benjamin
Description: This course is designed to provide students with experience in live-on-tape and single camera video production, including post production on video editing workstations, shooting and lighting on locations, and sound recording. The course emphasis is on field production. Students will work in groups on five major projects. Students will apply the aesthetic and critical knowledge they acquired in Comm 3201, and learning further techniques, technologies, and theories. This course requires extensive out-of-class work.
Style: 33% Lecture, 33% Discussion, 34% Laboratory.
Grading: 10% reports/papers, 60% special projects, 5% class participation, 25% laboratory evaluation.

COMM 3211 Introduction to U.S. Electronic Media
3 credit(s);
Instructor: Rodman, Gilbert B.
Description: Student may contact the instructor or department for information.

COMM 3231 Reality TV: History, Culture, and Economics
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Comm 3409 Nonverbal Communication
3 credit(s);
Instructor: Jones,Susanne Margareth
Description: The world of nonverbal communication! We are communicating nonverbally all the time, whether we want to or not. Right now, as you’re reading these words, you’re communicating nonverbally through your posture, your facial (non)expressions, your smell, your gestures, the seat you’ve chosen in this class, and your clothes. This course is designed to acquaint you with the pragmatics of nonverbal communication. Specifically, you will learn more about the importance, function, and meaning of nonverbal communication in the interpersonal communication process. In the first half of the course we will examine the structure of nonverbal communication by investigating several nonverbal codes, such as touch (haptics), personal distance (proxemics), and gestures (kinesics). In the second half of the course we will explore how these nonverbal codes work together to fulfill important communicative functions (e.g., deception, courtship, influencing) in various relational contexts (e.g., friendships, close relationships). In order to achieve these objectives I use various teaching tools, such as lectures, movies, in-class discussions, in-class exercises, assignments, research papers, and exams.
Style: 75% Lecture, 25% Discussion.
Grading: 16% mid exam, 12% final exam, 50% reports/papers, 10% quizzes. 12% for second exam
Exam Format: multiple choice

Comm 3411 Introduction to Small Group Communication
3 credit(s);
Instructor: Ouellette,Laurie Jean
Description: Student may contact the instructor or department for information.

Comm 3412 Interviewing and Communication
3 credit(s);
Instructor: Staff
Description: Student may contact the instructor or department for information.

Comm 3422 Interviewing and Communication
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Comm 3431 Persuasion Theories
3 credit(s); prereq Soph recommended; Meets CLE req of Social Science Core;
Instructor: STAFF
Description: This course is designed to familiarize you with the complex and dynamic phenomenon of persuasion as a form of human communication. There are three basic objectives for the course: 1) To be able to understand the concept of persuasion from a theoretical perspective, and be familiar with the research findings on the persuasion process. 2) To demonstrate understanding of the process of persuasion in a variety of communication contexts, through oral and written exercises. 3) To be a critical consumer of persuasive messages.
Style: 80% Lecture, 20% Discussion.
Grading: 12% mid exam, 12% final exam, 25% reports/papers, 12% special projects, 25% quizzes, 12% class participation.
Exam Format: Mixture of multiple choice and short answer/definition questions

Comm 3441 Introduction to Organizational Communication
3 credit(s);
Instructor: STAFF
Description: This course is designed to help students understand organizational communication. It combines lectures about theories for that understanding and an experiential learning component that allows students to apply those theories. The approach is as realistic as possible. The written work is designed to have students apply and critically evaluate the theories in the course. The course is generally made up of communication and business majors but is relevant for anyone planning to work in organizations.
Style: 66% Lecture. experiential learning
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 30% other evaluation. experiential learning
Exam Format: essay

Comm 3451W Intercultural Communication: Theory and Practice
3 credit(s); prereq Planning an intercultural experience; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Comm 3452W Communication and the Intercultural Reentry
3 credit(s); prereq Return from an intercultural experience; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

COMM 3601 Introduction to Rhetorical Theory
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Walzer, Arthur Eugene
Description: Student may contact the instructor or department for information.

COMM 3605W Persuasive Speaking and Speech Writing
3 credit(s); prereq 1101, soph; Meets CLE req of Writing Intensive;
Instructor: Killian, Justin Lee
Description: Student may contact the instructor or department for information.

COMM 3615 Argumentation
3 credit(s); prereq Soph; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3625 Communication Ethics
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3631 Freedom of Speech
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 3990 Research Practicum
1-3 credit(s), max credits 6, 6 repeats allowed;
Instructor: Jones, Susanne Margarethe
Description: Student may contact the instructor or department for information.

COMM 4471 Communication in Marriage and Family
3 credit(s); prereq 3401 or 3402 or instr consent;
Instructor: Isacs, Alyssa Marie
Description: Student may contact the instructor or department for information.

COMM 4621W Rhetoric of Feminism
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Campbell, Karlyn Kohrs
Description: Student may contact the instructor or department for information.

COMM 5110 Special Topics in Communication Theory: Visual Rhetoric
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Gross, Alan G
Description: How does verbal-visual interaction create meaning? 2) How can we account for this interaction? 3) How does what we know about verbal-visual interaction impact on visual design? A wide range of disciplines has had their say: rhetoricians, sociologists, philosophers, historians, semioticians, and cognitive psychologists have all contributed. To shed light on the first question, students will read the work of scholars in communication studies represented in Lester Olson, Cara Finnegan, and Diane Hope’s recent collection, Visual Rhetoric. They will also read historian Martin Rudwick on picturing 18th century geology; philosophers of science William Wimsatt and James Griesemer on the evolution of Weismann diagrams; philosopher Ronald Giere on the role of the visual in the sea-floor spreading controversy; and sociologist Michael Lynch on the role of visuals in scientific texts. To shed light on the second question, students will read Gunther Kress and Theo van Leeuwen on the semiotics of verbal-visual interaction and Alan Paivio on verbal-visual cognition. To shed light on the third question, students will read Edward Tufte on visual explanation. Grades will be based on a paper in which students will analyze verbal-visual interaction in their field of study and on the quality of a PowerPoint presentation based on that paper.

COMM 5110 Special Topics in Communication Theory: Rhetoric of Science
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Gross, Alan G
Description: Faced with the challenge of science, rhetorical critics have innovated in ways that have implications for rhetorical criticism as a whole. Celeste Condit’s The Meaning of the Genre and Alan Gross, Joseph Harmon, and Michael Reidy’s Communicating Science take one innovative path. Each combines social scientific and rhetorical methods in order to incorporate the breadth possible with the one with the depth possible with the other. Leah Ceccarelli’s Shaping Science with Rhetoric and Alan Gross’ Starring the Text take another innovative path. Each unites case studies into an argument in which these cases are transformed into evidence for a general claim. The rhetorical study of science has also flourished in other disciplines. With rhetoric as a guide, historian Bruce Hunt has shed light on physics and historian Frederic Holmes, on chemistry. In A Poetic for Sociology, sociologist Richard Harvey Brown has refigured his discipline, while philosopher Stephen Kellert has illuminated interdisciplinary in his Borrowed Knowledge: The Challenge of Learning Across Disciplines. In reading these works, students will see rhetorical methods applied to the solution of problems raised in a variety of disciplines: communication studies, history, sociology, and philosophy. The grade in this course will be based on a paper in which students apply rhetoric to science from their own disciplinary perspective.

COMM 5110 Special Topics in Communication Theory: Media Outlaws
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Rodman, Gilbert B.
Description: Student may contact the instructor or department for information.

COMM 5110 Special Topics in Communication Theory: Arguing the Bible
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Nordin, John P.
Description: Arguments on religious subjects are a key aspect of public life, and texts privileged by the particular faith are a critical source of evidence used to advance these arguments. The class will examine the strategies employed in religious arguments and develop the student’s ability to engage this type of argument. The focus will be provided by discussion of a series of particularly conflicted or “difficult” texts such as those that seem to advocate violence, a dismissive attitude to women, or seem unable to support any stable coherent meaning. Context for these debates will be provided by a discussion of historical context and by introducing various hermeneutical methods such as textual criticism, rhetorical criticism and literary criticism, among others. Argumentation in the Qur’an will also be briefly considered. This class is intended for undergraduates only. A class in argumentation or Biblical studies is strongly recommended as a prerequisite.

COMM 5110 Special Topics in Communication Theory: Producing for Television
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Neuman-Scott, Mark A
Description: This course will present production and thematic design, concept/idea, treatment and script development, the preproduction process, and directing talent for a video production. Students are expected to have an understanding of cinematic grammar, aesthetic elements of video production, and hands-on knowledge of video production and editing equipment.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
The class will also present an opportunity for students to present their production design and scripts to the class for critique and feedback as they work through the preproduction process, development of the script and completed video project. The goals of this class are to: Present your production ideas and script to class members for critical feedback. Critically consider production design and script development using the aesthetic principles learned in COMM 3201 and COMM 3204 and during this course in creating their production book. Understand the terminology used in preproduction, script development, aesthetic criticism and apply in the student's production exercises and final production book. Apply these aesthetic principles to the written production exercises and video production. prereq 3201 and 3204 or instr consent

COMM 5261 Political Economy of Media Culture
3 credit(s); prereq 5211 or instr consent Credit will not be granted if the student has already completed: Spch 5261; Instructor: Vavrus, Mary Douglas
Description: Student may contact the instructor or department for information.

COMM 5402 Advanced Interpersonal Communication
3 credit(s); prereq 3401 or 3402;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 5431 The Process of Persuasion
3 credit(s); prereq 3431;
Instructor: Rose, Jeremy H
Description: This course will explore the complexities of the persuasion process, using the concept of credibility (ethos) as a starting point to explore a wide variety of persuasion-related topics. The class will be not taught like an undergraduate lecture-based course in which the teacher's job is to explain and the student's job is to absorb: rather, students are expected to explore this seemingly simple topic along with the teacher, to read original articles by the scholars themselves instead of secondary descriptions in textbooks, and to actively participate in the search for understanding on the topic. This will be a challenging and heavily participative course: - the more you put into it, the more you will get out of it. Grades will be based on short reaction papers, book reports, and an in-depth analysis of one or more aspects of credibility in relation to a specific public figure. Style: 15% Lecture, 10% Film/Video, 60% Discussion, 10% Student Presentation, 5% Field Trips. Grading: 60% reports/papers, 10% written homework, 10% in-class presentation, 20% class participation. Details of grading may change - final details will be provided in the syllabus on the first day.

COMM 5441 Communication in Human Organizations
3 credit(s); Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 5451W Intercultural Communication Processes
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Galmareau, Stephanie M
Description: Student may contact the instructor or department for information.

COMM 5615W Introduction to Rhetorical Criticism
3 credit(s); prereq 1101; 3801 recommended; Meets CLE req of Writing Intensive;
Instructor: Wilson, Kirt H
Description: Student may contact the instructor or department for information.

COMM 8110 Seminar: Advanced Speech Problems
3 credit(s), max credits 15, 5 repeats allowed; prereq undergrad degree in spch-comm or equiv;
Instructor: Schiappa, Edward
Description: This seminar will focus on the writings of Kenneth Burke. "KB" remains the single most cited rhetorical theorist of the 20th century, and his work has spawned divisions in major academic organizations as well as the Kenneth Burke Society. It would be difficult to find a major journal issue in rhetorical studies at any given time that does not contain at least one book about Burke, his theories, or methods of analysis. We will spend about 2/3rd of the course reading his books, in chronological order, with supplemental lectures to provide historical and intellectual context. We will spend the remaining 1/3rd looking at some of the more noteworthy "uses" of Burke in Communication, Rhetorical Studies, English, and Sociology. The goal of this course is to equip students to be highly literate and conversant in the Burkean literature.

COMM 8210 Seminar: Selected Topics in U.S. Electronic Media
3 credit(s), max credits 6; prereq 5210 or instr consent; offered when feasible;
Instructor: Ouellette, Laurie Jean
Description: Student may contact the instructor or department for information.

COMM 8451 Seminar: Intercultural and Diversity Research
3 credit(s); prereq instr consent;
Instructor: Albert, Rosita D
Description: Student may contact the instructor or department for information.

COMM 8504 Seminar: Rhetorical Criticism
3 credit(s); prereq 5615 or instr consent;
Instructor: Wilson, Kirt H
Description: Student may contact the instructor or department for information.

Comparative Literature
235 Nicholson Hall

CL 5555 Introduction to Semiotics
3 credit(s);
Instructor: Pepper, Thomas Adam
Description: This course is a rigorous introduction to the thought of the sign during this last century. The emphasis is on the word "thought", that is to say, on the way in which semiotics, far from being an isolated discipline, is essentially related to all its neighbors, including: anthropology, feminism, linguistics, literature, marxism, philosophy, psychoanalysis. Readings include: Althusser, Austin, Barthes, Borges, Deleuze, Derrida, Eichenbaum, Foucault, Freud, Jakobson, Kristeva, Mitchell and Rose, Lacan, Levinas, Levi-Strauss, Lotman, Peirce, Saussure, Shklovsky, Wimsatt and Beardsley, Winnicott.
Style: 70% Lecture, 30% Discussion.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: Paper

CL 5992 Directed Reading in Comparative Literature
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CL 8002 Basic Seminar in Comparative Literature II
3 credit(s);
Instructor: Schulte-Sasse, Jochen
Description: Student may contact the instructor or department for information.

CL 8901 Pedagogy of Cultural Studies and Comparative Literature
3 credit(s); prereq Grad comp lit major; Credit will not be
CL 8910 Advanced Topics in Comparative Literature: Re-imaging America in a Post-9/11 World
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Kooijman, Jaap Willem
Description: "Nous sommes tous américains" declared the French newspaper Le Monde after the terrorist attacks of September 11, 2001. For a short moment, we were all Americans. This seminar examines how "America" has been depicted in global popular culture, both produced in the USA as well as in other parts of the world, including film, television, art, and pop music. A clear distinction will be made between an imagined "America" and the nation-state USA. In the USA, 9/11 has been used as a critical point in time to rethink American national identity, often based on a rigid "us" versus "them" paradigm. Using recent texts written by, among others, Jean Baudrillard, Jurgen Habermas, W.J.T. Mitchell, Lynn Spigel, and Slavoj Zizek, we will discuss how 9/11 functions in the re-imaging of "America" both within and outside of the USA. Literature: - Reader - Jean Baudrillard, America, translated by Chris Turner, London and New York: Verso, 1988. - Jaap Kooijman, Fabricating the Absolute Fake: America in Contemporary Pop Culture, Amsterdam: Amsterdam University Press, 2008. For more information, see Professor Kooijman's homepage:
http://home.medewerker.uva.nl/j.w.kooijman/page3.html

CL 8910 Advanced Topics in Comparative Literature: Dialectics 3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Ganguly, Keya
Description: From Aristotle's classical use of "dialectic" to refer to the art of argument, particularly refutation, and Hegel's nineteenth-century elaboration of it as the philosophical method by which to understand the unfolding of human history, to Marx's stipulation of dialectics as the basis of historical materialism, the concept and tradition of thinking associated with this term has been of profound importance in philosophy, history, and politics -- in short, in all of the fields of thought that have gone into the constitution of contemporary "theory" (even if many strands of it today abjure both the centrality and necessity of dialectical thinking within their own protocols of analysis). In this seminar, we will examine the central tenets and principles of the dialectical tradition, paying particular attention to its Left Hegelian lineage -- dating back of course to Marx and Engels as well as Feuerbach but in its movement forward as well, in the writings of Situationists such as Debord, existentialists such as Sartre, revolutionary socialists such as Mao and Ho Chi Minh and in the unsurpassed dialectics of the Frankfurt School thinkers (Adorno, Bloch, Benjamin, Horkheimer, and Marcuse, especially). Although the limitation of a semester will constrain what we can read, the objective of the seminar is to read in the tradition -- closely -- and to develop an understanding of its key aspects. Primary arguments as well as secondary readings will provide the basis of our engagement, which should be conceived as theoretical as well as methodological. [Figures and texts: Aristotle, Hegel, Marx, Feuerbach, Mao, Ho, Lukacs, Sartre, Adorno, Benjamin, Bloch, Debord, Marcuse, Horkheimer, Buck-Morss, Jameson, Kojak, Benhabib; Assignments: class presentations and a seminar paper.]

CL 8910 Advanced Topics in Comparative Literature: Heidegger/Foucault
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Pepper, Thomas Adam
Description: Student may contact the instructor or department for information.

CL 8910 Advanced Topics in Comparative Literature: (Post)Colonial Translation
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Taggeldin, Shaden M
Description: "Translation," writes Gayatri Chakravorty Spivak, "is the most intimate act of reading. I surrender to the text when I translate." Here Spivak speaks of translating a Bengali tongue whose intimacy has been lost to her as an Indian-born academic living in (post)colonial diaspora, not of the transfers of power at stake when a (post)colonial writer translates a colonizer's language—or vice versa. Yet translation, literary and otherwise, figures prominently in the cultural history of imperialism and begs a closer critical look. This seminar will interrogate the role of translation in both imperialisms and reactions to imperialism—past and present—across the (post)colonial power divides of Africa, Asia, the Arab world, the Americas, Europe, and their diasporas. On each side of the power differential it enforces, empire deforms and reshapess both the theory and the praxis of translation. We will consider those effects, as well as the impact of the translation-empire nexus on world literary and historical formations and transformations. By necessity, then, _translation_ in this seminar will denote as much ontological, epistemological, and cultural translation as it will inter- and intra-lingual translation. Shuttling between critical translation theory, literary history, and close readings of "translational literature," we will engage a set of interrelated questions. How have representatives of modern Western empire (invaders and traders, preachers and teachers, scholars and bureaucrats) used translation to elicit the surrender of their would-be subjects? How have writers and intellectuals in colonized or semi-colonial domains, in turn, pursued translation to resist or embrace their dominators' assumed "superiority" and--most often--to propel their cultures toward the West's presumed "modernity"? Why have literary-cultural "awkwardings" in much of the world beyond Europe—from the Indian "renaissance" to the Arab _nahda_ to the Chinese May Fourth movement to pan-African _negritude_—taken such charged translational forms, at once remolding literary cultures in the cast of the European dominant and refashioning those cultures against the dominant grain? How might we theorize (post)colonial translation in terms linguistic, material, religious, affective, sexual, psychological? Which face of translation—equivalence or incommensurability—might forge cultural and political equity between the dominator and the dominated? Which reinforces subjection? Finally, what are the implications of the translation-empire nexus for comparative literature and postcolonial studies today? Readings will include works by Agha Shahid Ali, Emily Apter, Paul Bandia, Walter Benjamin, Aime Cesaire, Jacques Derrida, Assia Djebar, Brent Hayes Edwards, Abdelfattah Kilito, Lydia Liu, Naguib Mahfouz, Natalie Melas, Tejaswini Niranjana, Vicente Rafael, Naoki Sakai, Gayatri Chakravorty Spivak, Rifat al-Tahtawi, Ngugi wa Thiong'o, Lawrence Venuti, Lu Xun, and others.

Style: 25% Lecture, 50% Discussion, 25% Student Presentation.
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

Comparative Studies in Discourse and Society
235 Nicholson Hall

CSDS 5555 Introduction to Semiotics
3 credit(s);
Instructor: Pepper, Thomas Adam
Description: This course is a rigorous introduction to the thought of the sign during this last century. The emphasis is on the word "thought", that is to say, on the way in which semiotics, far from being an isolated discipline, is essentially related to all its neighbors, including: anthropology, feminism, linguistics, literature, marxism, philosophy, psychoanalysis. Readings include: Althusser, Austin, Barthes, Borge, Deleuze, Derrida, Eichenbaum, Foucault, Freud, Jakobson, Kristeva, Mitchell and Rose, Lacan, Levinas, Levi Strauss, Lotman, Peirce, Saussure, Stevenson, Wismaatt and Beardsall, Winnicott.

Style: 70% Lecture, 30% Discussion.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: Paper

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSDS 5993 Directed Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr.
Description: STAFF

CSDS 8002 Basic Seminar in Comparative Studies in Discourse and Society II
3 credit(s);
Instructor: Schultz-Sasse.Jochen
Description: Student may contact the instructor or department for information.

CSDS 8901 Pedagogy of Cultural Studies and Comparative Literature
3 credit(s); prereq Grad CSDS major; Credit will not be granted if CSDS credit has been received for: CL 8901;
Instructor: Brown Jr.,Robert L
Description: Student may contact the instructor or department for information.

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Re-Imagining America in a Post-9/11 World
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Kooijman,Jaap Willem
Description: "Nous sommes tous americains" declared the French newspaper Le Monde after the terrorist attacks of September 11, 2001. For a short moment, we were all Americans. This seminar examines how "America" has been depicted in global popular culture, both produced in the USA as well as in other parts of the world, including film, television, art, and pop music. A clear distinction will be made between an imagined "America" and the nation-state USA. In the USA, 9/11 has been used as a critical point in time to rethink American national identity, often based on a rigid "us" versus "them" paradigm. Using recent texts written by, among others, Jean Baudrillard, Jurgen Habermas, W.J.T. Mitchell, Lynn Spigel, and Slavoj Zizek, we will discuss how 9/11 functions in the re-imagining of "America" both within and outside of the USA.

http://home.medewerker.uva.nl/j.w.kooijman/page3.html

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Heidegger/Foucault
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Tageldin,Shaden M
Description: "Translation," writes Gayatri Chakravorty Spivak, "is the most intimate act of reading. I surrender to the text when I translate." Here Spivak speaks of translating a Bengali tongue whose intimacy has been lost to her as an Indian-born academic living in (post)colonial diaspora, not of the transfers of power at stake when a (post)colonial writer translates a colonizer's language— or vice versa. Yet translation, literary and otherwise, figures prominently in the cultural history of imperialism and begs a closer critical look. This seminar will interrogate the role of translation in both imperialisms and reactions to imperialism—past and present—across the (post)colonial power divides of Africa, Asia, the Arab world, the Americas, Europe, and their diasporas. On each side of the power differential it enforces, empire deforms and reshapes both the theory and the praxis of translation. We will consider those effects, as well as the impact of the translation-empire nexus on world literary and historical formations and transformations. By necessity, then, translation in this seminar will denote as much ontological, epistemological, and cultural translation as it will inter- and intra-lingual translation. Shuttling between critical translation theory, literary history, and close readings of "translational literature," we will engage a set of interrelated questions. How have representatives of modern Western empire (invaders and traders, preachers and teachers, scholars and bureaucrats) used translation to elicit the surrender of their would-be subjects? How have writers and intellectuals in colonized or semi-colonial domains, in turn, pursued translation to resist or embrace their dominators' assumed "superiority" and--most often--to propel their cultures toward the West's presumed "modernity"? Why have literary-cultural "awakenings" in much of the world beyond Europe—from the Indian "renaissance" to the Arab _nahda_ to the Chinese May Fourth movement to pan-African _negritude_—taken such charged translational forms, at once remodeling literary cultures in the cast of the European dominant and refashioning those cultures against the dominant grain? How might we theorize (post)colonial translation in terms linguistic, material, religious, affective, sexual, psychological? Which face of translation—equivalence or incommensurability—might forge cultural and political equity between the dominator and the dominated? Which reinforces subjection? Finally, what are the implications of the translation-empire nexus for comparative literature and postcolonial studies today? Readings will include works by Agha Shahid Ali, Emily Apter, Paul Bandia, Walter Benjamin, Aime Cesaire, Jacques Derrida, Assia Djebar, Brent Hayes Edwards, Abdelfattah Kilito, Lydia Liu, Naguib Mahfouz, Natalie Melas, Tejaswini Niranjana, Vicente Rafael, Naoki Sakai, Gayatri Chakravorty Spivak, Rifa'a al-Tahawi, Ngugi wa Thiong'o, Lawrence Venuti, Lu Xun, and others.

Style: 25% Lecture, 50% Discussion, 25% Student Presentation.
Grading: 80% reports/papers, 20% in-class presentation, 20% class participation.

Comparative and Molecular Biosciences

CMB 5594 Directed Research in Comparative and Molecular Biology
102
Biosciences
1-4 credit(s), max credits 8, 8 repeats allowed; prereq Jr;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CMB 5910 Grantwriting: What Makes a Winning Proposal?
S-N only, 1 credit(s); Credit will not be granted if credit has been received for: VMED 5910;
Instructor: Matchett,Karin Elizabeth
Description: Student may contact the instructor or department for information.

CMB 8100 Research Rotation in Comparative and Molecular Biosciences
A-F only, 4 credit(s), max credits 8; prereq 1st yr CMB grad student;
Instructor: Walcheck,Bruce Kenneth
Description: Student may contact the instructor or department for information.

CMB 8303 Comparative Models of Disease
A-F only, 2 credit(s); prereq Enrollment in a biological sciences grad program or instr consent;
Instructor: Collister,John Peter
Description: Student may contact the instructor or department for information.

CMB 8335 Molecular Biology Techniques
3 credit(s); prereq Biol 5001, Biol 5003 or equiv or instr consent;
Instructor: Foster,Douglas N
Description: Student may contact the instructor or department for information.

CMB 8394 Research in Comparative Biomedical Sciences
1-6 credit(s), max credits 18, 5 repeats allowed; prereq Grad CMB major;
Instructor: Walcheck,Bruce Kenneth
Description: Student may contact the instructor or department for information.

CMB 8550 Comparative and Molecular Biosciences Seminar
S-N only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Biol sciences grad student;
Instructor: Vulchanova,Lucy
Description: Student may contact the instructor or department for information.

CMB 8560 Research and Literature Reports
S-N only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Grad CMB major or instr consent;
Instructor: Skinner,Pamela Jo
Description: Student may contact the instructor or department for information.

CMB 8560 Research and Literature Reports
S-N only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Grad CMB major or instr consent;
Instructor: Walcheck,Bruce Kenneth
Description: Student may contact the instructor or department for information.

CMB 8560 Research and Literature Reports
S-N only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Grad CMB major or instr consent;
Instructor: Godden,Sandra Michele
Description: Student may contact the instructor or department for information.

CMB 8570 Comparative Biomedical Sciences Seminar
S-N only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Biol sciences grad student;
Instructor: St Hill,Catherine
Description: Student may contact the instructor or department for information.

CSCI 1001 Overview of Computer Science
4 credit(s); prereq None; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Mathematical Thinking Core;
Instructor: Barry,Phillip
Description: CSCI 1001 is a broad introduction to the key ideas of computer science. This course is designed to help you understand the foundations and limits of computing and information technology, to help you reason about possible future applications and technological advances, and to help you be informed contributors to the public dialog about technology. This is not a beginning computer skills or programming course, although we will do some computing projects. Instead, it is an overview of many of the areas of computer science including how to automate problem solutions, how to generalize or abstract design and problem solutions, how to organize and use data collections, networks, and 'intelligent' computer systems. The course also covers core ideas behind the Internet, web, desktop software, and personal computers. The course is structured around six major activities: (i) class lectures; (ii) class discussions; (iii) lab sections that provide a chance for hands-on or in-depth exploration of topics covered more generally in lecture; (iv) reading assignments that will form the basis for the lecture and discussion; (v) problem sets; (vi) a book report. Style: 40% Lecture, 20% Discussion, 30% Laboratory, 5% Small Group Activities, 5% Guest Speakers. Grading: 25% mid exam, 20% final exam, 10% reports/papers, 10% class participation, 20% laboratory evaluation, 15% problem solving.

CSCI 1113 Introduction to C/C++ Programming for Scientists and Engineers
4 credit(s); prereq Math 1271 or Math 1371;
Instructor: Swanson,Charles D
Description: This course will cover algorithm development and the principles of computer programming using C and C++. Topics include introduction to computers and computing, program development, C/C++ programming language syntax, and elementary numerical methods for scientists and engineers. The prerequisite of one semester of calculus indicates the level of mathematical reasoning used in the class. Style: 50% Lecture, 50% Laboratory. Grading: 25% mid exam, 25% final exam, 50% laboratory evaluation.
Exam Format: Problems

CSCI 1121 Introduction to the Internet
A-F only, 4 credit(s);
Instructor: Sturtivant,Carl
Description: Student may contact the instructor or department for information.

CSCI 1901 Structure of Computer Programming I
4 credit(s); prereq Concurrent registration is required (or allowed) in MATH 1271 or equiv or instr consent;
Instructor: Carlis,John Vincent
Description: Student may contact the instructor or department for information.

CSCI 1902 Structure of Computer Programming II
4 credit(s); prereq 1901 or instr consent;
Instructor: Dovolis,Chris John
Description: CSCI 1902 is an object oriented programming course that builds on the fundamentals of design, abstraction and algorithm development presented the prerequisite course CSCI 1901. Students will use their knowledge of data abstraction, objects, iterative and recursive algorithm design, and problem solving. Student may contact the instructor or department for information.
solving as they are introduced to object oriented programming with Java. Classic data structures and algorithms will provide the context for practical application of object design and implementation. Included are basic Java syntax, structure, control constructs, classes, and programming techniques. Data structures covered include queues, stacks, trees, and related fundamental algorithms. Upon completing this course students should be able to write moderately complex object oriented Java programs that make appropriate use of the data structures and algorithms presented. The programming project component of this course is substantial and includes a simulation project. CSci 1902 is a required course for CSci majors, and is a prerequisite for many of the higher level CSci courses.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 30% mid exam, 30% final exam, 40% laboratory evaluation.

**Exam Format:** Programming, short answer, and some writing

### CSCI 2011 Discrete Structures of Computer Science

4 credit(s); prereq MATH 1271 or MATH 1371 or instr consent

**Instructor:** Isler, Ibrahim Volkan

**Description:** Student may contact the instructor or department for information.

### CSCI 2021 Machine Architecture and Organization

4 credit(s); prereq 1902 or instr consent

**Instructor:** Hsu, Wei Chung

**Description:** CSci 2021 is the first introductory course on computer organization and computer systems. It introduces students to the underlying principles by which programs are executed on a computer, providing broad coverage of processor operation and the aspects of system software such as compilers, linkers, and operating systems that are important from the programmer's perspective. It also introduces students to the organization of basic components in modern computers such as processors, hierarchical memory systems, and I/O peripherals and includes basic concepts in logic circuit design. In order to study the behavior of programs at this level, the student will be introduced to the system programming language C and to the instruction set architecture (ISA) and assembly language of at least one modern processor.

**Style:** 80% Lecture, 10% Discussion. Class problem-solving

**Grading:** 40% mid exam, 25% final exam, 35% laboratory evaluation.

**Exam Format:** Problem-solving, multiple choice

### CSCI 2031 Introduction to Numerical Computing

4 credit(s); prereq Math 2243 or instr consent; Credit will not be granted if credit has been received for: CSCI 5301

**Instructor:** Roumeliotis, Stergios

**Description:** Student may contact the instructor or department for information.

### CSCI 3003 Introduction to Computing in Biology

3 credit(s); prereq 1002H or Biol 1002 or 1009H or Biol 1009 or equiv or instr consent

**Instructor:** Myers, Chad Leighton

**Description:** Introduction to computing for biology. New genomic and proteomic technologies are generating enormous amounts of data, giving us an unprecedented view of cellular function. To make sense of these data, biology researchers are becoming increasingly dependent on using computation in their work. This course will provide a practical introduction to several programming concepts including variables, flow control, input/output, strings, pattern matching, arrays, hash tables, functions, and subroutines. Students will complete lab assignments in the Perl and Matlab programming languages, which will focus on answering biological questions through analysis of real genomic and proteomic data.

### CSCI 4017 Introduction to Computer Graphics Programming

3 credit(s); prereq 4041 or instr consent; cannot be taken for grad CSci cr; Credit will not be granted if credit has been received for: CSCI 5107

**Instructor:** Interrante, Victoria

**Description:** This course provides a basic introduction to the theory and practice of computer graphics programming, using C/C++ and OpenGL. The focus is on fundamental topics in computer graphics modeling, rendering and animation, with an emphasis on practical concepts and the effective use of graphics toolkits. This course does not fulfill the prerequisite for csci4108, and students who receive credit in csci4107 cannot take csci5107 for credit.

**Style:** 90% Lecture, 10% Discussion.

**Grading:** 15% mid exam, 25% final exam, 60% special projects.

**Exam Format:** Computation and short answer

### CSCI 4131 Internet Programming

3 credit(s); prereq 4061, 4121 recommended; cannot be taken for grad CSci cr; Credit will not be granted if credit has been received for: CSCI 5131

**Instructor:** Sturtivant, Carl

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 4203</td>
<td>Computer Architecture</td>
<td>4</td>
<td>Description: JavaScript enhancement of HTML documents; CGI programming in Perl using CGI.pm; Java servlet programming as an alternative to CGI programming in Perl; CGI programming in Perl with database servers via DBI.pm; Socket programming in both Perl and Java: clients, servers and protocols; Perl programming with ftp, telnet, ssh, mail protocols, etcetera.</td>
</tr>
<tr>
<td>CSCI 4211</td>
<td>Introduction to Computer Networks</td>
<td>3</td>
<td>Description: Concepts, principles, protocols, and applications of computer networks. Layered network architectures, data link protocols, local area networks, routing, transport, network programming interfaces, networked applications. Examples from Ethernet, Token Ring, TCP/IP, HTTP, WWW.</td>
</tr>
<tr>
<td>CSCI 4707</td>
<td>Practice of Database Systems</td>
<td>3</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W</td>
<td>Advanced Project Laboratory</td>
<td>3</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

**Exam Format:** Essay  

**Style:** 100% Lecture.  

**Grading:** 10% mid exam, 35% final exam, 55% other evaluation.  

**Programming assignments**

**Instructor:**

- O'Keefe, Matthew Thomas  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Papanikolopoulos, Nikolaos P  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Raabe, John J  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Boley, Daniel L  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Zhang, Zhi-Li  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Karypis, George  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Hopper, Nicholas J  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Konstan, Joseph Andrew  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Swanson, Charles D  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Boley, Phillip  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Konstan, Joseph Andrew  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

- Boley, Daniel L  
  Instructor: Meets CLE req of Writing Intensive; div CSci, 4061, instr consent; cannot be taken for grad cr; 3 credit(s), max credits 9, 3 repeats allowed; prereq Upper for information.  
  Description: Student may contact the instructor or department for information.  

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CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Saad, Youssef
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Kumar, Vipin
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Du, David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Heimdal, Mats Per
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Gini, Maria L
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Srivastava, Jaiseep
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Hsu, Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: He, Tian
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Nadathur, Gopalan
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr;
Meets CLE req of Writing Intensive;
Instructor: Meyer, Gary W
Description: Student may contact the instructor or department for information.
CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: VanWyk, Eric
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeat allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Roemeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Schuler, William Edward
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Myers, Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper div CSci, 4061, inst consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 5105 Foundations of Modern Operating Systems
3 credit(s); prereq 5103 or inst consent
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5125 Collaborative and Social Computing
3 credit(s); prereq 5115 or inst consent
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5131 Advanced Internet Programming
3 credit(s); prereq 5106 or 5211 or inst consent; [4081 or 5801], 5707 recommended; Credit will not be granted if credit has been received for: CSCI 4131;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 5161 Introduction to Compilers
3 credit(s); prereq [2011, 5106] or inst consent
Instructor: Hwu, Wei Chung
Description: This course covers principles and techniques of programming language processing tools, especially compilers which translate programs written in high level languages to machine codes. It introduces the general organization of a compiler including a lexical scanner, a syntax parser, a symbol table, an internal representation of the program and a code generator. The course explains the relationship between designing the grammar for a programming language and implementing it in a compiler. It also overviews run-time organization, error handling, semantic analysis and code generation. There are a few significant programming assignments that allow students to learn how to build a simple compiler. The programming assignments expose students to critical softwarde development techniques such as design, implementation, test and debugging. The classic "Dragon book" (Alfred V Aho, Ravi Sethi, and Jeffrey D Ullman, "Compilers: Principles, Techniques, and Tools", Addison-Wesley, 1986) is the main text. This course is designed for both undergraduate (senior) and graduate students.
Style: 80% Lecture, 10% Discussion, 10% Laboratory.
Grading: 25% mid exam, 25% final exam, 50% laboratory evaluation.
Exam Format: multiple choice and essay
CSCI 5302 Analysis of Numerical Algorithms
3 credit(s); prerequisite 2031 or instructor consent;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5421 Advanced Algorithms and Data Structures
3 credit(s); prerequisite 4041 or instructor consent;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 5461 Functional Genomics, Systems Biology, and Bioinformatics
3 credit(s); prerequisite 3003 or 4041 or instructor consent;
Instructor: Kuang, Rui

CSCI 5471 Modern Cryptography
3 credit(s); prerequisite 2011, 4041, [familiarity with number theory or finite fields] or instructor consent;
Instructor: Kim, Yongdae
Description: Overview (3.0 cr; prerequisite [2011, 4041, familiarity with number theory or finite fields] or permission from instructor). Introduction to cryptography. Theoretical foundations, practical applications. Threats, attacks, and countermeasures, including cryptosystems and cryptographic protocols. Secure systems/networks. History of cryptography, encryption (conventional, public key), digital signatures, hash functions, message authentication codes, identification, authentication, applications. Goal: The goal is to make students familiar with the foundations of computer and network security. More precisely, to learn mathematical background for cryptographic techniques. To learn basic cryptographic techniques used in computer and network security. To learn how to secure these techniques are to learn how to use these techniques securely. To learn how to apply these techniques to computer systems and Internet. Among these goals, the last two are the primary goal.
Style: 90% Lecture, 10% Discussion.
Grading: 20% mid exam, 30% final exam, 30% special projects, 4% class participation, 16% problem solving.
Exam Format: Problem solving and brief essay (5 lines maximum)

CSCI 5511 Artificial Intelligence I
3 credit(s); prerequisite 2011 or instructor consent;
Instructor: Gini, Maria L
Description: Textbooks: Stuart Russell and Peter Norvig, “Artificial Intelligence: A Modern Approach,” Prentice-Hall, second edition, 2003 (Chapters 1-11). Paul Graham, “ANSI Common Lisp,” Prentice Hall, 1996. Prerequisites: Knowledge of data structures (graphs and trees) and of formal logic (propositional and predicate calculus). Course Objectives: To provide in-depth understanding of the foundations of Artificial Intelligence, with special emphasis on search algorithms and knowledge representation. The course is suitable for students who want to gain a solid technical background in the field and as a preparation for more advanced work in AI. The course is for undergraduate and graduate students. The course will rely in active learning, by using a combination of lectures, in-class discussion, and other in-class activities. The material from the textbook will be supplemented with some technical papers that will show how to apply the concepts and algorithms to real-world problems. For instance, we may look at how airlines search for flights to answer user queries, how search algorithms are used in auctions, how knowledge representation is used to build ontologies and in the semantic web.
Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.
Grading: 15% mid exam, 20% final exam, 15% special projects, 25% written homework, 15% additional semester exams, 10% class participation.
Exam Format: Problem solving

CSCI 5512W Artificial Intelligence II
3 credit(s); prerequisite STAT 3021, 4041 or instructor consent;
Instructor: Mokbel, Mohamed F
Description: Credit will not be granted if credit has been received for CSCI 5519; Meets CLE req of Writing Intensive.
Instructor: Schuler, William Edward
Description: Student may contact the instructor or department for information.

CSCI 5561 Computer Vision
3 credit(s); prerequisite 5511 or instructor consent;
Instructor: Schafer, Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 5708 Architecture and Implementation of Database Management Systems
3 credit(s); prerequisite 4707 or 5707 or instructor consent;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 5802 Software Engineering II
3 credit(s); prerequisite 5801 or instructor consent;
Instructor: Heimdahl, Mats P
Description: Software engineering is concerned with the cost effective development and evolution of software systems. In this course we will explore techniques that can be considered advanced, software engineering techniques. That is, techniques and topics we did not have the time to cover properly in an overview course such as CSCI 3081 and 5801. The course will cover various topics in requirements engineering, formal modeling, model-based development, product family engineering, testing, and verification. Note that depending on the offering of the course, only a subset of the topics will be covered. The course introduces the techniques through lectures and by giving you a chance to apply the techniques to smaller case examples. The examples will in most cases be developed in small teams. You must have taken CSCI 4081 or CSCI 5801 before this course (or acquired equivalent knowledge from other sources). In addition, you should have knowledge of some higher level programming language (such as, C, C++, Ada, Pascal, or Java). You are expected to know basic data structures (such as, lists, sets, and trees), algorithms (such as, sorting, searching, and tree traversals), recursion, data abstraction, and finite state machine models. Finally, knowledge of discrete mathematics is an advantage.
Style: 60% Lecture, 20% Discussion, 20% Student Presentation.

CSCI 5980 Special Topics in Computer Science
3 credit(s), maximum credits 9, 9 repeat allowed, prerequisite instructor consent may be repeated for credit;
Instructor: Chapman, Richard Charles
Description: Student may contact the instructor or department for information.

CSCI 5980 Special Topics in Computer Science: Software Development for Regulated Ind: Med Devices
3 credit(s), maximum credits 9, 9 repeat allowed, prerequisite instructor consent may be repeated for credit;
Instructor: Chapman, Richard Charles
Description: Student may contact the instructor or department for information.

CSCI 5980 Special Topics in Computer Science: Developing the Interactive Web
3 credit(s), maximum credits 9, 9 repeat allowed, prerequisite instructor consent may be repeated for credit;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 5980 Special Topics in Computer Science: Functional Programming Languages
3 credit(s), maximum credits 9, 9 repeat allowed, prerequisite instructor consent may be repeated for credit;
Instructor: Nadathur, Gopalan

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Hopper, Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Swanson, Charles D
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Swanson, Charles D
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Saad, Yousef
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Kumar, Vipin
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
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Instructor: Saad, Yousef
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Instructor: Keefe, Daniel F
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CSCI 5991 Independent Study
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CSCI 5991 Independent Study
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Instructor: Barry, Phillip
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CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.
CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Hsu, Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Wei, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Dyatkina, Olga
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.
CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Banerjee, Arindam
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Myers, Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Hopper, Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Booley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Swanson, Charles D
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Saad, Yousef
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kumar, Vibin
Description: Student may contact the instructor or department for information.
CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Interantte, Victoria
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Hsu, Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: He, Tian
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Schuler, William Edward
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: VanWyk, Eric
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.
CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Mokbel,Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Banerjee,Anindam
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Myers,Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent; may be repeated for cr;
Instructor: Isler,Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Riedl,John T
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Janardan,Ravi
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent ;
Instructor: Sturtivant,Carl
Description: Student may contact the instructor or department for information.
Instructor: Kumar, Vipin  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Tripathi, Anand R  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Shragowitz, Eugene  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Srinavastava, Jaideep  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Interrante, Victoria  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Kuang, Rui  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Weißenstein, Jon B  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Hsu, Wei Chung  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: He, Tian  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Nadathur, Gopalan  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: VanWyk, Eric  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Meyer, Gary W  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Roumeliotis, Stergios  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Kim, Yongdae  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Roumeliotis, Stergios  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Kim, Yongdae  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Roumeliotis, Stergios  
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training  
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq [CSci or CompE] major, instr consent;  
Instructor: Roumeliotis, Stergios  
Description: Student may contact the instructor or department for information.
CSCI 5996 Curricular Practical Training
S-N only, 3 credit(s); prereq CSci or CompE major, instr consent;
Instructor: Zhai,Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Collins,John
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Karypis,George
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Hopper,Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Yew,Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Barry,Phillip
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Boley,Daniel L
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Riedl,John T
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Janardan,Ravi
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Stuiviant,Carl
Description: Student may contact the instructor or department for information.
CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Kumar, Vipin  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Tripathi, Anand R  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Shragowitz, Eugene  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Du, David Hung-Chang  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Heimdahl, Mats Per  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Shekhari, Shashi  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Gini, Maria L  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Interrante, Victoria  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Kuang, Rui  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Weissman, Jon B  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Hsu, Wei Chung  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: He, Tian  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Nadathur, Gopalan  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: VanWyk, Eric  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Terveen, Loren Gilbert  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Roumeliotis, Stergios  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Kim, Yongdae  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Schuler, William Edward  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Chandra, Abhishek  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Zhai, Antonia Bingheng  
Description: Student may contact the instructor or department for information.

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Instructor: Roumeliotis, Stergios  
Description: Student may contact the instructor or department for information.
### CSCI 8760 Plan B Project
- **S-N only, 3 credit(s); prereq CSci MS student, instr consent;**
- **Instructor:** Myers, Chad Leighton
- **Description:** Student may contact the instructor or department for information.

### CSCI 8760 Plan B Project
- **S-N only, 3 credit(s); prereq CSci MS student, instr consent;**
- **Instructor:** Keefe, Daniel F
- **Description:** Student may contact the instructor or department for information.

### CSCI 8970 Computer Science Colloquium
- **S-N only, 1 credit(s), max credits 3, 3 repeats allowed;**
- **Instructor:** Zhang, Zhi-Li
- **Description:** Student may contact the instructor or department for information.

### CSCI 8980 Special Advanced Topics in Computer Science: Computational Vision and Robotics
- **3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;**
- **Instructor:** Papanikolopoulos, Nikolaos P
- **Description:** Student may contact the instructor or department for information.

### CSCI 8980 Special Advanced Topics in Computer Science: Computational Vision and Robotics
- **3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;**
- **Instructor:** Papanikolopoulos, Nikolaos P
- **Description:** Student may contact the instructor or department for information.

### CSCI 8980 Special Advanced Topics in Computer Science: Topics in Geometric Computing, with Applications
- **3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;**
- **Instructor:** Janardan, Ravi
- **Description:** Student may contact the instructor or department for information.

### CSCI 8980 Special Advanced Topics in Computer Science: Advanced Storage Systems
- **3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;**
- **Instructor:** Du, David Hung-Chang
- **Description:** Student may contact the instructor or department for information.

### CSCI 8980 Special Advanced Topics in Computer Science: Functional Programming Languages
- **3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;**
- **Instructor:** Nadathur, Gopalan
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Swanson, Charles D
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Carlis, John Vincent
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Dovolis, Chris John
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Collins, John
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Karypis, George
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Hopper, Nicholas J
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Yew, Pen-Chung
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Collins, Joseph Andrew
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Boley, Daniel L
- **Description:** Student may contact the instructor or department for information.

### CSCI 8991 Independent Study
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;**
- **Instructor:** Papanikolopoulos, Nikolaos P
- **Description:** Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Saad, Yousef
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Kumar, Vipin
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Du, David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Heimdahl, Mats Per
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Gini, Maria L
Description: Student may contact the instructor or department for information.
CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instructor consent;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instructor consent;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instructor consent;
Instructor: Isler, Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Carls, John Vincent
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent;
Instructor: Swanson, Charles D
Description: Student may contact the instructor or department for information.
CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Heimdahl,Mats Per
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Sturltvant,Carl
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Kumar,Vipin
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Tripathi,Anand R
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Shragowitz,Eugene
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Du,David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Heimdahl,Mats Per
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Shekhar,Shashi
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Gini,Maria L
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Schrater,Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Srivastava,Jaideep
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Interrante,Victoria
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Kuang,Rui
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Weissman,Jon B
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Hsu,Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: He,Tian
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Nadathur,Gopalan
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Meyer,Gary W
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: VanWyk,Eric
Description: Student may contact the instructor or department for information.
CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
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Instructor: Roumeliotis, Stergios
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CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
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CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
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CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Banerjee, Arindam
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Myers, Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Isler, Ibrahim Volkan
Description: Student may contact the instructor or department for information.

Conservation Biology
199 McNeal Hall

CBIO 8001 Conservation Biology Seminar
S-N only, 1 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

CBIO 8004 Economic and Social Aspects of Conservation Biology
3 credit(s); prereq CBio student or instr consent;
Instructor: Polasky, Alan Stephen
Description: Student may contact the instructor or department for information.

CBIO 8005 Contemporary Problems in Conservation Biology
S-N only, 1 credit(s), max credits 3, 1 repeat allowed; prereq 8004, FW 8452, instr consent;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

Construction Management
20 Classroom Office Building

CMGT 2019 AutoCAD for Construction Managers
S-N only, 2 credit(s); prereq 30 sem cr;
Instructor: Gillette, Timothy Alan
Description: Student may contact the instructor or department for information.

CMGT 3001 Introduction to Construction
3 credit(s);
Instructor: Kuehn, Rose Marie
Description: Introduction to construction and processes that shape our environment. A discussion of construction types and their differences, key participants and their vocabulary, and delivery systems. Construction specialists and their roles. Elements of the management of construction. Construction plan reading. Course consists of lectures and field trips.

CMGT 3011 Construction Plan Reading
2 credit(s);
Instructor: Kuehn, Rose Marie
Description: Introductory level course in construction plan reading and construction documents. Course materials include architectural, civil, mechanical, electrical drawings and project manual. The emphasis is on the development of skills necessary for the reading, understanding and interpretation of commercial construction plans and project manuals, including notes, symbols, and plan layout. This course is appropriate for third year Construction Management and CALA students, and at any time for students in IT and other colleges.

CMGT 4011 Construction Documents and Contracts
3 credit(s); prereq 3001, 45 sem cr;
Instructor: Hauser, Stephen George
Description: Definition, interpretation, and utilization of drawings; specifications; agreements; bidding forms; general conditions; bonds, contracts, subcontracts, and related documents. Appropriate provisions for minority business participation will be included such as tax exempt status and wage rates.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CMGT 4021 Construction Planning and Scheduling  
3 credit(s); prerq 3001, [3011 or CE 4101], 45 sem cr;  
Instructor: Styrlund,Kenneth Andre  
Description: Concepts of project planning, scheduling, and control. Understanding project scheduling models with emphasis on the critical path method. Introduction to the techniques used in the industry utilizing commercial software on personal computers. The importance of periodic updating and analysis of schedules and of considering and understanding alternatives will be stressed.

CMGT 4022 Construction Estimating  
3 credit(s); prerq 3001, [3011 or CE 4101], 45 sem cr;  
Instructor: Hilger,Peter  
Description: Purposes and uses of various kinds of estimates. Techniques for performing quantity take-off, organizing bidding process, requesting and analyzing subcontractor proposals, unit pricing, utilizing published resources, and preparing systems-based estimates. Personal computer programs, spreadsheets, and custom applications to be introduced and used. The linkages between estimates, budgets, cost control systems, and historical cost records will be established.

CMGT 4031 Construction Safety and Loss Control  
3 credit(s); prerq 3001, 45 sem cr;  
Instructor: Carroll,Mill  

CMGT 4041 Specifications and Technical Writing for Construction Professionals  
3 credit(s); prerq 4011 or Concurrent registration is required (or allowed) in 4011;  
Instructor: Hilger,Peter  
Description: Application of written communication throughout the construction process, including information gathering, bidding and contract documentation, project manual use and interpretation, and construction administration tools and processes related to communication from the perspectives of all team members (designers, contractors, owners, suppliers). In-depth technical writing exercises exploring a variety of communication formats will develop skills associated with effective construction communication.

CMGT 4051 Construction Materials for Managers  
3 credit(s); prerq 3001, [AE 2011 or BP 3001 or BP 3101], 45 sem cr;  
Instructor: Hale,Jupee  
Description: Basic concepts of physical properties and behavior mechanisms for construction materials such as concrete, aggregate, steel, and wood. Standard specifications for material properties. Laboratory techniques for evaluation of each material.

CMGT 4111 Construction Productivity Management  
2 credit(s); prerq 4021, 4022, CE 4101;  
Instructor: Elthon,Dwight J  
Description: The construction project superintendent, foreperson and the project manager of a construction project have the responsibility to manage and supervise a project in the most effective and efficient way possible. This course focuses on maximizing productivity through the supervision of labor, management of materials, equipment, job overhead and communications.

CMGT 4196 Construction Management Internship  
S-N only, 1-4 credit(s), max credits 12, 3 repeats allowed;  
prereq [CMgt major or minor or certificate student], [jr or sr], dept consent ;  
Instructor: STAFF  
Description: Career preparation in construction management. Students will gain hands-on work experiences in a construction company, applying coursework in the work place, contributing knowledge of best practices to make a positive impact on the construction industry, and participate in career development exercises. Professional experience internship requirement for BASc in Construction Management. May take course maximum of 3 times at maximum 4 credits for total of 12 credits maximum. 1 credit equivalent to 1 month of internship.

CMGT 4542 Building Energy Systems  
A-F only, 3 credit(s); prerq [3001, [jr or sr]] or instr consent ;  
Instructor: Manz,Timothy Oscar  
Description: Conceptual understanding of functions of building mechanical systems and their integration with other building components through case studies. Residential and commercial HVAC systems, alternative energy sources, energy efficiency, structural implications of mechanical systems, indoor air quality, and environmental control strategies.

CMGT 4550 Topics in Construction Management: Solar Decathlon Construction  
A-F only, 2 credit(s), max credits 12, 3 repeats allowed;  
Instructor: Hilger,Peter  
Description: Examine the basis for legislation enabling Best Value Procurement (BVP), as used in the contract award for the I-35W bridge replacement. Identify common and uncommon traits among public procurement practices. Recognize leading edge concepts of BVP implementation. Create white paper on potential BVP practices for private-sector contracting.

Continuing Dental Education  
6-406 Moos Tower

CDED 6101 Postgraduate Contemporary Esthetic Dentistry I:  
Level I—Lecture/Laboratory Series  
S-N only, 5 credit(s);  
Instructor: Olin,Paul S  
Description: Student may contact the instructor or department for information.

CDED 6202 Postgraduate Contemporary Esthetic Dentistry:  
Level II—Patient Series  
S-N only, 5 credit(s); prerq 6101;  
Instructor: Olin,Paul S  
Description: Student may contact the instructor or department for information.

CDED 7302 Postgraduate Contemporary Esthetic Dentistry:  
Level III—Orthodontic and Periodontal Esthetics  
S-N only, 1-1.5 credit(s), max credits 1.5, 1 repeat allowed;  
Instructor: Olin,Paul S  
Description: Student may contact the instructor or department for information.

CDED 7307 Postgraduate Contemporary Esthetic Dentistry:  
Level III—Technology in Restorative Dentistry  
S-N only, 1 credit(s);  
Instructor: Olin,Paul S  
Description: Student may contact the instructor or department for information.

Control Science and Dynamical Systems  
107 Akerman Hall

CSDY 8899 Seminar in Control Science and Dynamical Systems  
S-N only, 1-3 credit(s), max credits 9, 9 repeats allowed;  
prereq CSDy or IT grad;  
Instructor: Balas,Gary John  
Description: Student may contact the instructor or department for information.
Cultural Studies and Comparative Literature
235 Nicholson Hall

CSCL 1001 Introduction to Cultural Studies: Rhetoric, Power, Desire
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; Instructor: Opitz, Andrew Michael
Description: How does "culture" shape the way we see the world? Where do we get our tastes in clothes, food, music, and art? And where did we get our political, religious and philosophical beliefs, our sense of what's logical, natural, and believable? Cultural Studies assumes that the world around us means, and that its meanings are central in creating us--individually and collectively. And it assumes culture can be "read." CSCL 1001 explores cultural reading, examining the "texts" around us: television and film, some paintings and photographs, magazine ads, poetry, novels, science, journalism, and some features of everyday life; dress, manners, work routines and attitudes about sex. The "rhetoric" of culture transmits a view of the world and our loyalty to that view. Its systems of "power" tell us and our texts into large, historical conversations and struggles over ideas and social positions. And the operations of "desire" direct who and what we love, where we find pleasure and how these pleasures figure in the process of making and reproducing culture. This is a basic course for majors and non-majors interested in making sense of their worlds
Style: 60% Lecture, 10% Film/Video, 30% Discussion
Grading: 20% final exam, 10% quizzes, 20% additional semester exams, 10% attendance, 40% reflection paper

CSCL 1101 Literature
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; Instructor: Conley, John E
Description: What is literature? And, in what amounts to the same question, what does it have to offer us? This class will address both these questions, and assumes that literature and reading can tell us some profound things about our world and ourselves. In particular, this class will tackle some of the political and social implications of writing and reading. We will look at a number of different literary forms--epic poetry, lyric poetry, short stories, novels, just to name a few--from a number of different places and historical periods. If you are interested in tough questions about literature, the world, and yourself, this class is for you.
Style: 70% Lecture, 30% Discussion

CSCL 1201 Introduction to Cinema and Media Culture
4 credit(s); Credit will not be granted if credit has been received for: SCMC 1201; Meets CLE req of Other Humanities Core; Instructor: STAFF
Description: The emergence of what is variously referred to as the "Information Age" and "Society of the Spectacle" has made it necessary for us to think critically about the media. Since visual media have the most pervasive influence on our everyday lives, this course will focus on how forms such as advertising, film, and television work, affect perception, and structure meaning. We will read some of the most important theoretical and historical texts that provide insight into our "ways of seeing." No prior exposure to media theory is expected, but although this is an introductory class, students will be expected to read and work through challenging material. We will read a variety of critics who have attempted to analyze cinema and media culture and we will also begin to develop a vocabulary for formal visual analysis.

CSCL 1301W Reading Culture: Theory and Practice
4 credit(s); Meets CLE req of Other Humanities Core; Instructor: STAFF
Description: CSCL 1301W Reading Culture: Theory and Practice 4 credits, meets Lib Ed req of Other Humanities Core; meets Lib Ed req of Writing Intensive Instructor: STAFF
Description: This course turns on one central question: How do things "mean"? Specifically, how do cultural texts mean in relation to each other and to human life in society and across history? "Cultural texts" are made objects and forms of communication that encode messages and values, and that produce effects--anything from movies, TV shows, magazine ads and rock concerts to "high art" (paintings, classical music, plays, poems, etc.). The course specifically examines: (1) the role played by cultural forms in creating, maintaining or challenging social boundaries and power relationships; and (2) the ways art and culture function as sites where creative and alternative visions of "the good life" come into being. Small classes emphasize close reading, discussion, and practice in critical writing. An introductory course in every sense, it's a good place to start thinking about what "culture" is and how it works. It will also help you develop reading and writing techniques useful for many courses and majors. Class Time: 40% lecture, 60% discussion

CSCL 1401W Reading Literature: Theory and Practice
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: STAFF
Description: CSCL 1401W Reading Literature: Theory and Practice 4 credits, meets Lib Ed req of International Perspect Theme; meets Lib Ed req of Literature Core; meets Lib Ed req of Writing Intensive Instructor: STAFF
Description: What is Literature? How do definitions of it differ over time and across cultures? How does literature play a role in the ways people see themselves and others? How do our histories - personal and cultural - determine how we read it? CSCL 1401W examines such questions in relation to larger patterns of culture and power. You'll emerge from the course with a solid sense of the differences among various genres, and the cultural contexts from which they arise - between an epic poem emerging from a Greek city state and a novel by a German civil servant, say. Small classes emphasize close reading, discussion, and practice in critical writing. An introductory course in every sense, it will give you a good sense of the field of Comparative Literature as well as reading and writing skills useful in many other courses and disciplines. Class Time: 40% lecture, 60% discussion

CSCL 1501W Reading History: Theory and Practice
4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; Instructor: STAFF
Description: CSCL 1501W Reading History: Theory and Practice 4 credits, meets Lib Ed req of Historical Perspective Core; meets Lib Ed req of Writing Intensive Instructor: STAFF
Description: What is history - is it what we get on The History Channel, or is it something else? Who controls it, who decides what gets included and what's important? Why has history become such a hot political topic - textbooks in schools, for example? This course examines such questions, starting from two assumptions: (1) that history can have explanatory power - it can tell us why things got to be the way they are; but (2) that all history comes to us in a mediated way, that is, as a "text" that encodes someone's or some group's version of it. Small classes focus on reading a variety of texts "in" history - the Mall of America, a Nazi rally, a 17th century Dutch painting; "history on television," the representation of the human body, etc., as well as some critical theory "about" history, designed to help you think about its importance, its uses and abuses. Class Time: 40% lecture, 60% discussion

CSCL 1921 Introduction to Film Study
4 credit(s); Credit will not be granted if credit has been received for: ARTH 1921W; Meets CLE req of Other Humanities Core;
CSCL 3115 Cinema and Ideology
4 credit(s); Meets CLE req of Other Humanities Core; Instructor: Ganguly, Keya
Description: This is a course in film criticism and theories of ideology. Our concern will be to gain a critical perspective on the problem of ideology as it pertains to the cinema (rather than with the ideological content of films per se—even though that too will be addressed). Theorizing issues of cinema and ideology requires that we have a shared understanding of (1) film form; how the technical apparatus of film functions to produce ideological understandings of the world; (2) film content: how ideology is inscribed in and through filmic narrative; and (3) film spectatorship: how (and whether) the ways that viewers are positioned to make sense of themselves and the world have implications for social relations at large (outside the cinema). Using formal, theoretical and interpretive arguments, we will attempt to formulate readings both of recurrent ideological themes in the cinema (such as: class conflict; corporate crime; political repression and conspiracy) as well as develop conceptual arguments about the nature of the cinematic image.

CSCL 3172 Music as Discourse
3 credit(s); Meets CLE req of Other Humanities Core; Instructor: Thomas, Gary C.
Description: "Music is very il for yung heds, for a certeine kind of nice, smoothet sweetenes in alluring the auditorie to effeminancie... Sweet musick at the first delighteth the eares, but afterward corrupteth and depraveth the minde... But being used in publicque assemblages... as directories to filthie dauncing,... it estrangeth the mind, streith up filthie lust, womanisheth the minde, ravisheth the hart, enflameth concupiscence, and bringeth in uncleanenes."This diatribe against the evils of music was written in 1583. But the real or imagined power of music, its ideological uses, and its psychic and social meanings have been the subject of human reflection (and anxiety) from Plato to the present. This course examines the ways music can be considered a "discursive practice," i.e., how the shaping of sonorities participates in the formation of human consciousness, community, identity, and attitudes toward the body; how and for what purposes music is used or tuned into a commodity; what/who distinguishes music from noise; and why some musics are policed and censored. Examples drawn from a wide variety of musical practices—film, symphony, blues, rock, opera, etc.—as well as artists, from Bach and Beethoven to the Beach Boys and the Butthole Surfers. Style: 75% Lecture, 25% Discussion.

CSCL 3173W The Rhetoric of Everyday Life
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Wlodarczyk, Holley Ann
Description: While at first glance it might seem that there's not much that is "interesting" about everyday life, this is where and how we spend a majority of our lives, and a lens through which we understand some of the most complicated aspects of our identities, desires, possessions, relationships, and world views. In this course we will examine the rhythms and rhetoric that structure and define our daily existence, analyzing many of the cultural texts and contexts associated with everyday life (including but not limited to: bodies, fashion, money, jobs, leisure, transportation, the built environment, popular media, personal communication, daily routines, etc.). Utilizing diverse theoretical paradigms that contribute to cultural studies, we will engage the following questions: "How do we express "who" we are in relation to other people in our daily lives? "How do we function in it? As well as undertaking brief comparative studies across time, geography and culture as a class, small groups will contribute to a semester-long case study to be published and peer-reviewed on our course website. Class Time: 30% Lecture, 40% Discussion, 20% Film/Video, and 10% Group Work. Work Load: 20-40 pages reading per week, 15 pages writing per term, 0 exams, 3 papers, 1 group project, and threaded discussion online.

CSCL 3175 Comedy: Text and Theory
3 credit(s); Meets CLE req of Other Humanities Core; Instructor: Thomas, Gary C.
Description: In this course you'll study two kinds of things, comic texts and theories about comedy. Texts include anything from bumper stickers ("Rapture Now! Get the Assholes Out of Here!") and lapel-pin flags to classic drama (a play or two by Aristophanes, Shakespeare, Moliere, Shaw, Beckett, e.g.), obscene and hostile jokes and satire to TV and Hollywood movies like The Daily Show, Being John Malkovich, Monty Python and the Holy Grail, American Beauty, Brazil. For theory we'll consider a fairly canonical set of literary, philosophical, psychological, and sociological musings:Deep Thoughts on the nature, mechanics, and socio-political uses of comedy (among others, Bakhtin, Bergson, Freud, Frye, and a feminist and postmodern or two). The instructor feels constrained to warn those whose delicate sensibilities might be offended by the likes of George Carlin, Rabelais or Roseanne to look elsewhere. Despite the philosophical seriousness and a lens through which the Comic Spirit is pursed here, evaluations have been enthusiastic, if polarized: from utterly enraptured ("This course changed my life personal identity, perceptions, thoughts, values, and ontological understanding of the world around you, not to mention the cultural, political, and socioeconomic forces positioning you—materially and symbolically—as a particular kind of person who relates to her/himself and others in particular kinds of ways? "The Rhetoric of Everyday Life" examines how the sights, sounds, myths, and texts surrounding us contribute to the constitution of our subjectivity(ies), to our beliefs regarding what's (im)possible, "normal," and "natural," and finally, to the ways in which we (don't) see and relate to power. We will read core works in semiotics, rhetoric, and Marxist theory, as well as qualitative sociology and Neo-Marxist critique, "trying on" these theoretical glasses, and applying them to everyday life. Engaging texts as multi-varied and seemingly incongruous as vitamin ads, a Chinese blue jeans factory, Star magazine, and mainstream news coverage of politics and the economy, we'll pay particular attention to the dynamic relationship between consumer capitalism, politics, and the rhetoric, expectations, and practices of contemporary citizenship.

Style: 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCL 3176 Oppositional Cinemas
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Tompkins, Joseph Franklin
Description: This course explores cinemas that offer alternatives to Hollywood's hegemony of style and production. It will be divided into two parts: the first part will examine films and filmmakers associated with different historical and national cinematic movements (e.g. Soviet Montage, French New Wave, New German Cinema, Third Cinema, New Queer Cinema); the second part will focus on particular genres (exploitation/trash/cult, avant-garde/experimental, documentary) whose formal and stylistic systems deviate from those of mainstream Hollywood. Overall, the course aims to both expand traditional notions of film (and film criticism) and analyze how these different cinemas attempt to engage and challenge dominant power structures of capitalism, racism, patriarchy, and colonialism. (A prior knowledge of film terms and vocabulary is expected, though not required.)

CSCL 3177 On Television
4 credit(s);
Instructor: Lekas, Michelle Yvonne
Description: In this course, we will study television as a specific medium, television programs as cultural influences that emerge from culture, and televisuality as a phenomenon of late capital. We will do close analyses of several TV products and also look beyond the screen to understand television's place within cultural political life, and its strange relation to other media, such as cinema. Readings will include articles and excerpts from Baudrillard, Debord, McLuhan, Anders, and others. Evaluation will depend upon one essay, one group presentation, a multiple choice midterm and final, two reaction pieces and, of course, class participation.

CSCL 3177 On Television
4 credit(s);
Instructor: Labidi, Imed
Description: Student may contact the instructor or department for information.

CSCL 3178W Documentary Cinema: History and Politics
4 credit(s); Meets CLE req of Writing Intensive;
Instructor: Lekas, Michelle Yvonne
Description: This course will cover the history and development of documentary cinema, beginning with the question of how we define documentary as a genre and what, if anything, distinguishes non-fiction film from standard narrative cinema. Students will write one short paper, compose a documentary project, and take a multiple choice midterm and final. Texts are from authors including Deleuze, Aftnon, Nichols and Renov. Films include MAN WITH A MOVIE CAMERA, PARADISE LOST, DARE TO TELL THE TRUTH, SENORITA EXTRAVIADA, and HOOP DREAMS.

CSCL 3211W Theories of Culture
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Opitz, Andrew Michael
Description: How do we use "culture" to make sense of our place in the world and what does it mean to study culture in a department of cultural studies? It turns out that there are no easy answers to these questions. "Culture? is a seemingly simple but ultimately rather complicated term. Scholar Raymond Williams ultimately rather complicated term. Scholar Raymond Williams (exploitation/trash/cult, avant-garde/experimental, documentary) whose formal and stylistic systems deviate from those of mainstream Hollywood. Overall, the course aims to both expand traditional notions of film (and film criticism) and analyze how these different cinemas attempt to engage and challenge dominant power structures of capitalism, racism, patriarchy, and colonialism. (A prior knowledge of film terms and vocabulary is expected, though not required.)

CSCL 3331 Science and the Humanities
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core;
Instructor: Opitz, Andrew Michael
Description: This course seeks to understand the often troubled relationship between the humanities (the human sciences) and Science. In order to do this we will think about what Science is and how we use it as a method, a technology and a fetish. We start by thinking about creation and evolution: the emergence of science as a methodology and the ways in which it grows and transforms itself into new discursive "species." We will then examine the science of health and the health of science. Why do we trust science and when must we not? Finally, we will think about the question of the human and how science has both challenged the human as a concept and moves to transform it as a reality in our own posthuman age. Grade based on four elements: attendance and participation; in-class group work; three, five page essays; and a final, take home exam.

CSCL 3413W Psychoanalysis and Literature Part II: Post Freudian Criticism
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Stockwell, Cory
Description: In this course we will examine the ways in which Freud's thought has been taken up by some of the most important writers and thinkers from the 20th century and beyond, both from within and outside of psychoanalysis. We will address such questions as: What is the relevance of Freud, today -- why, in other words, have writers and thinkers after Freud turned to him? What light can post-Freudian thought shed on contemporary literary and aesthetic, but also social and political, questions? What has become of Freudian concepts such as "the unconscious," "repression," and "the uncanny," and what new concepts and ideas have been added to the Freudian corpus? Texts by Borges, Calvino, Cixous, Deleuze and Guattari, Kafka, Lacan, Zizek, and others.

CSCL 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Gasterland, Gretchen Lynne
Description: Student may contact the instructor or department for information.

CSCL 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Labidi, Imed
Description: Anchored in Postcolonial, psychoanalysis, and feminist theories, this course engages the dialectics of sexuality and power and the way cultural forms as texts and images represent, express, and capture the constructions of sexuality. Concepts such as biopolitics, masculinity, femininity, gender, and sexual difference are central topics in the course's debate. Moving between political discourse, theoretical texts, and media essentialist notions, we interrogate the (in)visible cultural structures that dictate popular understanding of sexual roles and contest the amorphous conceptualization of race and sexuality. In particular, our discussion places extraordinary emphasis on the political intersection of race, sexuality, and violence. What does it mean to mark some people with excessive sexual appetite and stigmatize others as sexual predators that must be contained? When politicized, how does sexualizing/de-sexualizing facilitate the marginalization of "Others"? Can sexuality serve the purposes of domination? And how does sexual violence become an interrogation technique? We seek to answer these questions through the careful study of influential thinkers such as Bell Hooks, Judith Butler, Frantz Fanon, Michel Foucault, and Sigmund Freud among others. Readings 50-75 pages a week Assignments: 3 essays, 1 presentation, 1 final 8 page paper Attendance is a must
CSCL 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Conley, John E
Description: In this class, both terms -- sexuality and culture -- will be thought and rethought by way of yet one more key term: history. In other words, how do sexuality, culture, and history inform, condition, and produce one another? We will look at a range of cultural texts and practices -- including but not limited to literature, visual art, philosophy, film, and critical essays -- in order to come to terms with not only what we talk about when we talk about sex, but the ways in which the concepts, ideas, and practices of sexuality have come to be fused and confused with such terms as identity, violence, danger, labor, and criminality, just to name a few. Count on serious lectures, readings and discussions that question -- rather than reinforce -- what we "know" and how we "know" it.
Style: 60% Lectures, 40% Discussion.

CSCL 3458W The Body and the Politics of Representation
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Gasterland, Gretchen Lynne
Description: Student may contact the instructor or department for information.

CSCL 3458W The Body and the Politics of Representation
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Hubbard, Kysa Koerner
Description: How do bodies mean? Fat. Thin. Rich. Poor. Can we trace - at least in part - the (Western) historical trajectory of these meanings? Body. Soul. Truth. Error. In what representational forms have these ascriptions been made manifest over culture and time in the West, and how do they continue to shape and inform the ways in which we are bodies and the ways in which we perceive/interpret/understand/regulate them? As feminist philosopher Susan Bordo writes, "The body is not merely flesh and bone, but a surface of inscription, a locus of control, a malleable, intelligible embodiment of material culture and ideology." (1993). Following this, how do issues of gender, race, sexuality, and class figure in here? Can representations of the body ever be innocent? Good. Evil. Dirty. Clean. In this course, we will investigate the various (and nefarious) ways in which past and present Western cultures have codified the human body into socially-constructed, politically-loaded categories that work to both defer and delimit opportunities for and access to power. A history of philosophies of the body will provide a foundation for these inquiries, while sociological, semiotic, and critical theories will help us understand the complex relationships between our perceptions and presentations of identity, violence, and the concrete, habilitated ways we come to "embody" them. In short, over the course of fifteen weeks, we will: [1] study visual and textual representations and discourses of the body - historical and contemporary; [2] examine and theorize historical processes, materials, ideological and economic structures and systems that have gone into the (re)making of disciplined, "civilized," "habitualized" bodies; [3] explore philosophical and theoretical concepts that have shaped past and present thinking about the body itself, as well as in representation and practice; [4] engage issues of gender, race, sexuality and class as they have historically intersected and continue to intersect with ideas about and the regulation of marginalized bodies and their representation.

Style: 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities.

CSCL 3461 Monsters, Robots, Cyborgs
3 credit(s); Meets CLE req of Literature Core;
Instructor: Opitz, Andrew Michael
Description: This course proceeds from the assumption that monsters and monster stories are more than just scary entertainment; they have something to teach us. Monsters speak to our fears, of course, but they can also tell us about the changing social world in which we live?its pressures, relations of production/reproduction and models for correct behavior. Since monsters are almost always ?outsiders,? monster stories can also tell us something about rules for social belonging. Robots and cyborgs, with their machine brains and technologized mutations, play a similar social role. They are modern and postmodern monsters that embody our fears and hopes for the future. This course will enlist students in the careful and critical reading of a number of monster, robot and cyborg stories in hopes gaining a better understanding of their historical origins and changing cultural meanings. We will examine select literature, film and history texts, as well as scholarly essays addressing key issues in cultural theory, in an effort to make sense of these monstrous beings and their important place in popular culture.
Style: 50% Lecture, 20% Film/Video, 30% Discussion.
Grading: 20% final exam, 40% reports/papers, 20% additional semester exams, 10% attendance, 10% journal.
Exam Format: Multiple choice, matching and short answer.

CSCL 3465 Aliens
3 credit(s);
Instructor: Stout, Graeme Allen
Description: Aliens...a word we use to designate both people from other countries and beings from other worlds. We surround ourselves with aliens; they are both objects of fascination and of fear. Through aliens, those who represent an extreme form of alterity, we can understand how our culture mediates the relationship of the individual to the group, how we create and redefine our identities, and how we imagine the ethical imperative that others pose. We will think of the alien as a political concept: those who are not part of our political community but who still have a legal standing (albeit an ambiguous one). From this definition we will then think of the alien as an existential state: the outsider, the alienated modern subject. We will finally investigate the extra-terrestrial as an object of speculation and fascination. From these other-worldly projections and fantasies we will see how speculative fiction and popular culture allow us to imagine our place in the universe and on our own planet. Grade is based on four elements: attendance and participation; a short presentation; two, six page essays; and a final project.

CSCL 3472 Gay Men and Homophobia in American Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Lekas, Michelle Yvonne
Description: This course operates on the premise that, whether one identifies as G, L, B or T or other, homosexuality, and its discourse is an object of speculation and fascination. From these other-worldly projections and fantasies we will see how speculative fiction and popular culture allow us to imagine our place in the universe and on our own planet. Grade is based on four elements: attendance and participation; a short presentation; two, six page essays; and a final project.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCL 3557W Close Reading
3 credit(s); Meets CLE req of Literature Core; meets CLE req of Writing Intensive
Instructor: Hoagland, George Quotidian
Description: Close reading is a way of analyzing a text by paying attention to how the words are arranged on the page. Seems simple enough, but when you look closely at a text you tend to see lots of things in it, similar to the way you use a magnifying glass to see the intricacies of, say, butterfly wings, or a microscope to look at bacteria. When you read closely you tend to see that the words on the page have a lot going on inside them, behind, around, through, [insert preposition of your choice here] them. Each word has a specific role to play and that role is dependent upon other words and their roles. And those roles are assigned by specific properties of language. And that language is contingent upon social and personal uses. And those uses are derived from certain needs and desires. And those desires, well, you get the picture. In this course we’ll try to figure out what close reading looks like, how it works, and why it works. We’ll try to answer questions such as: Why does the way we read a text influence our ideas about it? Is there a right way to interpret a text? When we’re analyzing a text, are we really just reading into it the things we want to see? In working through these questions we’ll build a relationship with the text that is simultaneously intimate and political, and we’ll challenge the notion that reading occurs simply by passing one’s eyes over a text.
Style: 60% Lecture, 20% Discussion, 20% Web Based.

CSCL 3631 Jewish Writers and Rebels in German, Austrian, and American Culture
3 credit(s); prerequisite No knowledge of German required; credit toward major or minor requires reading in German; Credit will not be granted if credit has been received for: GER 3631; Meets CLE req of International Perspectives Theme; meets CLE req of Literature Core
Instructor: Abramov, Tamar
Description: This course will investigate the fruitful yet traumatic encounter between Europe and America in the works of German emigres to the United States in the twenties, thirties and forties. In reading these works we will develop an elaborate thinking of the relationship of Europe to America, the old to the new. We will focus on the way these works allegorize a historical encounter between European/metaphysical thinking (and its break) and the event of America, both redemptive and disastrous to its European counterpart. We will also consider the way this encounter is embodied in these thinkers’ life journeys and their thought in and after the trauma of World War I. Screenings include: Arendt, Adorno, Brecht, Lubitsch, Wilder, Mann, Strauss, Jonas and others. A short midterm paper (5 pages) and a final longer one (10-12 pages).

CSCL 3910 Topics in Cultural Studies and Comparative Literature: The End of Feeling: Readings in the Contemporary
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Brennan, Timothy Andres
Description: This will be an introduction to recent trends in world literature and to the basic methods of comparative literary study. We will discuss what it means to study of literature written in a variety of languages and explore how it differs from studying “English.” This course will be organized to allow us to examine at a leisurely pace some of the problems of literary form, and the way that form is conditioned by place, culture, and situation. Our primary task will be to develop a vocabulary and a set of critical options for the close reading of imaginative texts, and we will mostly be involved in basic literary interpretation. Our look at narrative, representation, translation, genre, and figurative language will give way to a questioning of another sort. I have structured the course around the theme of the end of feeling. We will explore here the mood of numbness, rejection, alienation, and disgust that frequently marks modern and contemporary literature—its response to a century of wars, repression, mind control, and violence without restraint. Some of what we read will give voice to despair, others will see in art a compensation for what life lacks, and still others will counter despair by way of a rediscovery of a lost self and in hope of a different social order. The final reading list has not been decided, but we will cover approximately three novels and two short stories over the course of the semester. The list is likely to be drawn from the following: Ferdinand Celine, Death on the Installment Plan; Robert Musil, The Man without Qualities; Christa Wolf, The Quest for Christa T., Jose Maria Arguedas, Deep Rivers; Clarice Lispector, The Stream of Life; Richard Wright, Man Underground; Richard Powers, Gain; Don DeLillo, White Noise; Machado de Asis, The Posthumous Memoirs of Bras Cubas; The Crescent in the Samoan American Tragedy; Roberto Bolaño, The Savage Detectives; Pascal Mercier, Night Train to Lisbon; and short stories by Jorge Luis Borges and Anton Chekov. Requirements: one exam, one 3-page essay, and one longer final essay.
Style: 40% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation.
Grading: 25% mid exam, 50% reports/papers, 10% attendance, 15% class participation.

CSCL 3979 Issues in Cultural Pluralism
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;
Instructor: Doghlian, Michael M
Description: People are different, and this difference makes the world complicated. Were everyone the same, we would have
little need for politics, law, or war. This, however, is not the case. We frequently define ourselves on identity and against difference. Yet difference is ultimately in the eye of the beholder. How we acknowledge those differences, or if we even do, is central to the establishment of cultural identity. However, perceiving the mechanisms that define difference for any given group is a difficult task, particularly for those in the group. What this class aims to investigate, then, are the ways we represent difference, through literature, visual media, and philosophy, and what the consequences of those representations are. Moreover, we will examine how cultures come into conflict through their differences, and whether or not those differences are insurmountable. This is not a class on ethics, so prescriptive claims about whether a given difference is good or bad are beyond its scope. Similarly, the course is not concerned with constructing models of culture in which difference does not exist. Instead we shall seek to emphasize difference as much as possible in order to better understand its role in the formation of cultural systems.

**Style:** 25% Lecture, 15% Film/Video, 60% Discussion.

### CSCL 3979 Issues in Cultural Pluralism

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;  
**Instructor:** Stout,Graeme Allen  
**Description:** For the past two hundred years, the Nation, as a singular and indivisible entity and identity, has defined how people and cultures organize themselves. Within the bounds of the Nation we hope to restore community and preserve cultural identity. But this drive toward unification and collective identity has been problematic: the violence and destruction of the previous two centuries has invariably been justified by the goal of establishing or protecting some form of collective, national identity. Our first goal is to understand this drive toward a unified community and culture. We will examine the origins of the Nation-State in the revolutions of the eighteenth and nineteenth centuries and how the desire for uniformity and collectivity still influences us. But national identity is only one possibility. We also see, alongside the drive toward collective identity, an equally strong desire to embrace difference and to uphold it as a more just and dynamic model of community. The dual notions of individual liberty and the pluralistic community are at the very heart of American political and legal history. They have not, however, always triumphed. But, this pluralistic dream has continued to serve as a goal that guides liberal-democratic societies. The second and central goal of this course is to understand the philosophical, legal and cultural history of pluralistic concepts of identity and community. Finally, as we are now in an era of "global culture," do we find ourselves imagining the possibilities of "living together" and learning from one another on a global level. How might the possibilities of our cosmopolitan world offer us a unique way to define ourselves as both individuals and cultures? Can we live beyond and without nations?

### CSCL 5154W Theoretical Constructions of Space

3 credit(s); Meets CLE req of Writing Intensive;  
**Instructor:** Archer,John  
**Description:** People conceptualize, understand, fashion, and make use of the space in which we all exist in a variety of ways, the diversity of which becomes evident when examined across time and disciplines. The goals of this class are to obtain a sense of several principal strands of spatial thinking that have come to inform our present culture; and to inquire into the interests that they serve and sustain. Or, to put it differently, our agenda concerns the manners in which space articulates and sustains the interests and purposes of society. Our inquiries are located in various disciplines, including anthropology, architecture, geography, history, landscape design, philosophy, planning, and sociology. The readings concentrate on the Western Enlightenment heritage from Locke to the late 20th century, including phenomenological, structuralist, poststructuralist, marxist, feminist, and materialist perspectives. Student projects are encouraged to analyze the interplay of geographic, and theoretical modes of space in order to understand limitations of present formulations, and explore ground for new potentialities.

**Style:** 45% Lecture, 40% Discussion, 5% Small Group Activities, 10% Student Presentation.

**Grading:** 60% reports/papers, 10% class participation, 30% other evaluation, exams - 2@ 15% each (undergrad students only); 30% leading class discussion (grad students only)  
**Exam Format:** short essay

### CSCL 5411 Avant-Garde Cinema

A-F only, 4 credit(s); prereq 1921 or ARTH 1921W or equiv;  
**Instructor:** Groening,Stephen  
**Description:** Unlike narrative and documentary cinemas, avant-garde cinema articulates the personal relationship of the filmmaker/poet to the artistic, political, social, and cultural milieu in which s/he lives. This course will investigate series of questions regarding avant-garde practice and its relationship to society, including: - What are the intellectual and filmic preoccupations of avant-garde filmmakers? - What are the social, historical, political, and artistic issues that gave rise to avant-garde cinema? - What is the relationship of avant-garde cinema to other art forms: poetry (structures of metrical and rhythmical patterns), painting (plasticity allows the artist total freedom to manipulate the appearance of things in whichever way they imagine and their skill allows), and music (music unburdened by any fidelity to external appearance)? - How do new forms in art lead filmmakers to believe that new social structures might come into being? Specific filmmakers to be studied: Dziga Vertov, Sergei Eisenstein, Luis Bunuel, Man Ray, Chris Marker, Hans Richter, Viking Eekelling, Ferndand Leger, Rene Clair, Jean Epstein, Maya Deren, Lizzie Borden, Su Friedrich, Carolee Schneeman, Trinh T Minh-ha, Kenneth Anger, Andy Warhol, Stan Brakhage, and others.  
**Style:** 25% Lecture, 50% Film/Video, 25% Discussion.
Bull, David Beer, etc.), as well as more foundational texts in communications, political economy and economic sociology, sound studies, and new media studies; 2) primary materials culled from various sources, including the critical analysis of multimedia installations, television shows, films, musical recordings, the "junk culture" of YouTube video clips, websites, etc., and 3) original student projects—case studies—on particular forms of mobile, digital expression, which will be brought into the course for collective examination. The course content will both inform and be informed by work on two recent projects of mine, a book titled Ringtones, or, The Auditory Logic of Globalization, and an edited volume titled The Oxford Handbook of Mobile Music Studies.

Curriculum and Instruction
145 Peik Hall

CI 1001 Introduction to the Elementary School
A-F only, 3 credit(s);
Instructor: Byrn,Katherine Margaret
Description: Student may contact the instructor or department for information.

CI 1001 Introduction to the Elementary School
A-F only, 3 credit(s);
Instructor: DeLapp,Peggy Reed
Description: This course is intended to be a beginning course for undergraduate students considering a career in elementary education. Students examine various aspects of elementary schools and teaching, including school contexts and organization, standards, curriculum, assessment, policy, culture and diversity, contemporary students, and the role of the teacher. The course includes school visits. 
Style: 30% Lecture, 40% Discussion, 15% Laboratory. small group projects
Grading: 13% mid exam, 25% final exam, 32% reports/papers, 15% special projects, 15% class participation. Course includes group projects
Exam Format: Multiple choice, short answer

CI 1001 Introduction to the Elementary School
A-F only, 3 credit(s);
Instructor: Lee-Nichols, Mary Elizabeth
Description: Student may contact the instructor or department for information.

CI 1911 Ethics, Wealth, and Education in a Democracy
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Levy,Sara Ann
Description: Student may contact the instructor or department for information.

CI 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prerequisite Jr or sr or instr consent
Instructor: Brendler,Beth
Description: Student may contact the instructor or department for information.

CI 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prerequisite Jr or sr or instr consent
Instructor: Coffino,Kara Lee
Description: Student may contact the instructor or department for information.

CI 5008 Theory and Practice of Teaching Art in Elementary Schools
A-F only, 1-2 credit(s), max credits 3, 1 repeat allowed;
Instructor: Petkau,Judi W
Description: Student may contact the instructor or department for information.

CI 5008 Theory and Practice of Teaching Art in Elementary Schools
A-F only, 1-2 credit(s), max credits 3, 1 repeat allowed;
Instructor: Henko,Kelly A
Description: Student may contact the instructor or department for information.

CI 5008 Theory and Practice of Teaching Art in Elementary Schools
A-F only, 1-2 credit(s), max credits 3, 1 repeat allowed;
Instructor: Bequette,James W
Description: Student may contact the instructor or department for information.

CI 5050 Issues in Art Education: Botanical Drawing for Art & Science Teachers
3 credit(s), max credits 12, 12 repeats allowed;
Instructor: Garber,Marilyn Ann
Description: Student may contact the instructor or department for information.

CI 5097 Student Teaching in Art Education
S-N only, 8 credit(s); prerequisite Licensure student in art ed;
Instructor: STAFF
Description: Observation of, participation in, and supervisory experiences with various types and levels of art classes.

CI 5111 Introduction to Elementary School Teaching
A-F only, 3 credit(s); prerequisite Foundations of ed major or elem ed initial lic;
Instructor: Byrn,Katherine Margaret
Description: Student may contact the instructor or department for information.

CI 5111 Introduction to Elementary School Teaching
A-F only, 3 credit(s); prerequisite Foundations of ed major or elem ed initial lic;
Instructor: DeLapp,Peggy Reed
Description: Student may contact the instructor or department for information.

CI 5147 Language, Culture, and Education
A-F only, 3 credit(s); prerequisite MEd or grad student;
Instructor: King PhD,Kendall Amy
Description: This course explores the interaction of language and cultural identity and the implications for education, broadly conceived. It offers a basic introduction to the study of sociolinguistics, with a focus on educational issues for children from non-mainstream linguistic backgrounds. It investigates diversity in language use from many dimensions: diversity in native language, diversity in varieties of language, diversity along ethnic and gender lines, diversity in cultural norms governing the use of language functions, and cultural diversity in approaches to language socialization and literacy. In addition, it considers the broader social implications of diversity by examining issues of language and power, especially in debates over standard and official languages as well as in programs and policies for minority language learners. Throughout the course, the sociolinguistic issues are tied to the implications of language diversity for education, such as the need for teaching critical language awareness and developing culturally sensitive teaching approaches. Overview of course topics: Meeting 2: (Im)migration discourses, policies, and populations Meeting 3: Explanations of minority language performance in schools; Past and present Meeting 4: Bilingual education in the U.S.: programs, models, research and policy: Continuities and contradictions Meeting 5: Assessment, English language learners and NCLB Meeting 6: International perspectives on language diversity and education Meeting 7: Language socialization: a closer look at home-school connections Meeting 8: Ethnography of speaking and cross-cultural communication in the classroom Meeting 9: African American English and (non)standard dialects Meeting 10: International English: Who counts as a ‘native-speaker’? (and who decides?) Meeting 11: Language and gender in the classroom Meeting 12: Biliteracy Meeting 13: Code-switching and code-mixing in the classroom and community Meeting 14:
CI 5150 Curriculum Topics  
3 credit(s), max credits 12, 12 repeats allowed;  
Instructor: swiss,Thom  
Description: Popular Culture and Education Course Description  
This course is grounded in the premise that 'schooling?' can  
be thought of as being expanded to consider the immense influence and  
importance of popular culture in the lives of adolescents and  
children. This course introduces a number of approaches to the  
study of popular culture and education, exploring the intersection  
between everyday life, media, teaching and learning, and  
broader political and historical contexts. From sporting events to  
toys, clothing to shopping malls, YouTube to comics?popular  
culture can be usefully examined through various lenses,  
including race, class, age, gender, sexuality, disability, and so  
on. Thus the course will engage graduate students in developing  
teaching and learning strategies around popular forms of culture.  
Style: 100% Web Based.  
Grading: No exams. Papers and posts on Blogs.

CI 5155 Contemporary Approaches to Curriculum: Instruction and Assessment  
A-F only, 3 credit(s); prereq Grad students only;  
Instructor: Cunningham,Maurella Louise  
Description: Student may contact the instructor or department for information.

CI 5177 Practical Research  
A-F only, 3 credit(s); prereq CI MEd student, or CI or EdPA  
Teacher Leadership MEd student;  
Instructor: STAFF  
Description: Preparation for identifying a research and development topic, reviewing the existing knowledge on the topic, planning and carrying out a project, further investigating the topics, and writing a report on the project.

CI 5181 Clinical Experience in Elementary School Teaching  
S-N only, 3-8 credit(s), max credits 16, 3 repeats allowed;  
prereq Foundations of education and elem ed initial licensure only;  
Instructor: Rourke,Joan Willenburg  
Description: Student may contact the instructor or department for information.

CI 5181 Clinical Experience in Elementary School Teaching  
S-N only, 3-8 credit(s), max credits 16, 3 repeats allowed;  
prereq Foundations of education and elem ed initial licensure only;  
Instructor: Carlson,Ann Ruhl  
Description: Student may contact the instructor or department for information.

CI 5183 Applying Instructional Methods in the Elementary Classroom  
S-N only, 1-2 credit(s), max credits 8, 4 repeats allowed;  
prereq Foundations of ed major or elem ed initial licensure only;  
Instructor: Fautsch-Patridge,Terri  
Description: Student may contact the instructor or department for information.

CI 5183 Applying Instructional Methods in the Elementary Classroom  
S-N only, 1-2 credit(s), max credits 8, 4 repeats allowed;  
prereq Foundations of ed major or elem ed initial licensure only;  
Instructor: Clevette EdD,Cathleen A.  
Description: Student may contact the instructor or department for information.

CI 5183 Applying Instructional Methods in the Elementary Classroom  
S-N only, 1-2 credit(s), max credits 8, 4 repeats allowed;  
prereq Foundations of ed major or elem ed initial licensure only;  
Instructor: Hokanson,Aaron Rudolf Miller  
Description: Student may contact the instructor or department for information.

CI 5186 School-Related Projects  
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed;  
prereq MEd student;  
Instructor: STAFF  
Description: Research or evaluation project related to teaching, curriculum, or other aspect of schooling. Approved and supervised by faculty advisor.

CI 5187 Practicum: Improvement of Teaching in Elementary or PreKindergarten Schools  
S-N only, 2-3 credit(s), max credits 3, 1 repeat allowed;  
prereq MEd student in elem or early childhood ed;  
Instructor: STAFF  
Description: Elementary school classroom teaching project designed to improve specific teaching skills. Approved and directed by advisor.

CI 5190 Directed Individual Study in Curriculum and Instruction  
1-6 credit(s), max credits 12, 12 repeats allowed;  
prereq Grad student, instr consent;  
Instructor: STAFF  
Description: Directs students to individual studies that focus on producing and evaluating curriculum materials; literature review of issues and problems; and assessing curriculum processes.

CI 5327 Designing Online Adventure Learning  
A-F only, 3 credit(s);  
Instructor: Doering,Aaron H  
Description: Student may contact the instructor or department for information.

CI 5361 Integrating the Internet into K-12 Schools for Learning, Instruction, and Professional Development  
3 credit(s); prereq Experience with computers recommended;  
Instructor: STAFF  
Description: Examination of the capabilities of the Internet for professional development and instructional use. Use of specific client/server software for accessing the Internet, instructional issues and opportunities; implications for K-12 student involvement and classroom management; and Web page development by teachers and their students. Previous experience with computers desirable.

CI 5362 Introduction to Educational Multimedia  
3 credit(s); prereq Familiarity with basic computer operations;  
Instructor: Reinartz Jr,Thomas Joseph  
Description: Student may contact the instructor or department for information.

CI 5367 Interactive Multimedia Instruction  
A-F only, 3 credit(s); prereq Knowledge of principles and procedures of CBI design and one multimedia authoring system;  
Instructor: Miller,Charles Devaughn  
Description: In this course, we will explore a variety of common design heuristics; however, you will modify these to meet and continually refine your personal design perspective and style. We will become better designers through discussion, research, exploration, collaboration, development, and simply?design. Ultimately, we will form small design teams to explore unique instructional problems and develop, implement, and evaluate innovative instructional design solutions. Parallel to student design and development, we will examine the design lifecycle and authentic context of two Learning Technologies projects that will be in production during the Spring semester: 1) GeoThentic - an online environment that creates opportunities for students to
learn with geospatial technologies by solving authentic, complex problems, and 2) AvenueDH - A Flash-based progress-monitoring intervention in the area of reading, writing, and language development for use with children who are deaf or hard-of-hearing. Students with basic design and development skills in at least one of the following domains (HTML, CSS, Flash, PhotoShop, PHP/ASP, JavaScript, database design, Flash Media Server, FLEX, video editing, etc.) are encouraged to sign up for the course.

Style: 20% Discussion, 40% Small Group Activities, 40% Studio.

CI 5411 Reading Teaching in the Elementary School
A-F only, 3 credit(s);
Instructor: Jacobson, Mary J
Description: Student may contact the instructor or department for information.

CI 5412 Reading Difficulties: Instruction and Assessment
A-F only, 3 credit(s); prereq 5411 or 5451;
Instructor: Helman, Lori A
Description: Student may contact the instructor or department for information.

CI 5422 Teaching Writing in Schools
A-F only, 3 credit(s);
Instructor: Flynn, Jill Ewing
Description: Student may contact the instructor or department for information.

CI 5424 Reading, Language Arts, and Literature: Primary
A-F only, 3 credit(s); prereq Elem ed init lic;
Instructor: Jacobson, Mary J
Description: Student may contact the instructor or department for information.

CI 5424 Reading, Language Arts, and Literature: Primary
A-F only, 3 credit(s); prereq Elem ed init lic;
Instructor: Chein, Michelle Anne Botkin
Description: Student may contact the instructor or department for information.

CI 5433 Instructional Leadership in Reading for the Middle and Secondary Grades
A-F only, 3 credit(s); prereq 5432;
Instructor: Kelly Catherine Maureen
Description: Student may contact the instructor or department for information.

CI 5452 Reading in the Content Areas for Initial Licensure Candidates
A-F only, 1 credit(s); prereq Enrolled in Initial Licensure Program, concurrent enrollment in licensure area methods course(s), Internet access, basic understanding of [computer use, Web browsers, e-mail, word-processing software];
Instructor: O'Brien, David
Description: Student may contact the instructor or department for information.

CI 5452 Reading in the Content Areas for Initial Licensure Candidates
A-F only, 1 credit(s); prereq Enrolled in Initial Licensure Program, concurrent enrollment in licensure area methods course(s), Internet access, basic understanding of [computer use, Web browsers, e-mail, word-processing software];
Instructor: Mayer, Jessica E
Description: Student may contact the instructor or department for information.

CI 5461 Teaching Composition in the Secondary School
A-F only, 2 credit(s);
Instructor: Dockter, Jessica
Description: Student may contact the instructor or department for information.

CI 5472 Teaching Film, Television, and Media Studies
A-F only, 3 credit(s);
Instructor: Swiss, Thom
Description: Course Objectives: understand different theoretical justifications of film/media/internet study; understand and apply different critical approaches to studying media: aesthetic, formalist, technical, psychological, cultural studies, feminist and so on. Understand the purpose for the use of different film/video techniques and ways of teaching these techniques to students? demonstrate the ability to conduct critical analysis of media representation and critically analyze media texts. Required Text (just one): ? Beach, Teaching Media Literacy available at the University Bookstore (Coffman Union) and online: lots of places.

Style: 100% Web Based.
Grading: No exams. Posts, comments, and papers using a blog.

CI 5481 Developments in Teaching English and Speech
A-F only, 3 credit(s);
Instructor: Pyscher, Tracey Michelle
Description: Student may contact the instructor or department for information.

CI 5482 Reading, Language Arts, and Literature: Intermediate
A-F only, 3 credit(s); prereq Elem ed initial licensure only;
Instructor: Rapport, Rebecca T
Description: Student may contact the instructor or department for information.

CI 5496 Directed Experiences in Teaching English
S-N only, 8 credit(s); prereq MEd/initial licensure students in English ed only;
Instructor: STAFF
Description: Student teaching/clinical experience for English post-baccalaureate students only.

CI 5501 Teaching Science and Health in the Elementary School
A-F only, 2 credit(s); prereq Elem ed initial licensure only;
Instructor: Dahal, Bhaskar
Description: Student may contact the instructor or department for information.

CI 5501 Teaching Science and Health in the Elementary School
A-F only, 2 credit(s); prereq Elem ed initial licensure only;
Instructor: Dubosarsky, Mia D
Description: Student may contact the instructor or department for information.

CI 5535 Foundations of Science Education
A-F only, 3 credit(s); prereq M.Ed., grad student, or instr consent;
Instructor: Finley, Fred N
Description: Analysis of present science teaching practices in light of historical and philosophical foundations of science education.

CI 5538 Research-based Decision-making in Science Education
A-F only, 3 credit(s); prereq MEd or grad student or instr consent;
Instructor: Roehrig, Gillian Heather
Description: Student may contact the instructor or department for information.

CI 5597 Clinical Experience in Secondary School Science Teaching
S-N only, 4-8 credit(s), max credits 8, 1 repeat allowed; prereq initial licensure or instr consent;
Instructor: STAFF
Description: Supervised clinical experience in secondary school science teaching.

CI 5634 Content-Based Instruction in Second Language Settings
A-F only, 3 credit(s); prereq SLC initial licensure only;
CI 5635 Culture and Diversity in Second Language Classrooms
3 credit(s); prereq initial licensure program only;
Instructor: Tedick,Diane J
Description: Student may contact the instructor or department for information.

CI 5644 Working with Linguistically and Culturally Diverse Students in the Mainstream Classroom
1 credit(s);
Instructor: Watson,Jill Ann
Description: Student may contact the instructor or department for information.

CI 5657 Speaking and Listening in a Second Language
A-F only, 3 credit(s);
Instructor: Ranney,Susan Elaine
Description: Theories and methods in teaching language as communication in oral and aural modes; planning student interaction; classroom organization for oral language learning and acquisition; using technology to enhance interaction; assessment of listening comprehension and oral communication.

CI 5662 Issues in Second Language Curriculum Design
A-F only, 3 credit(s);
Instructor: Wesely,Pam
Description: Individual or group work on curricular, instructional, or assessment problems.

CI 5670 Practicum: Teaching World Languages and Cultures in Elementary Schools
2 credit(s); prereq 5619, adviser approval; credits cannot be counted on a graduate degree program for endorsement candidates;
Instructor: STAFF
Description: Teaching and learning experiences in second languages and cultures at the elementary school level. Requires students to work in a public school setting.

CI 5682 Directed Study in Second Languages and Cultures at the secondary level for teachers already licensed in another field. Requires students to work in a public school setting.

CI 56747 Global and Environmental Education: Content and Practice
A-F only, 3 credit(s);
Instructor: Finley,Fred N
Description: Student may contact the instructor or department for information.

CI 5701 Teaching Social Studies in the Elementary School
A-F only, 2 credit(s); prereq Elementary ed or early childhood ed initial licensure;
Instructor: Harrington,Judith M.
Description: Student may contact the instructor or department for information.

CI 5744 Seminar: Reflecting on Professional Development in Social Studies Education
A-F only, 1 credit(s); prereq Secondary social studies initial licensure student;
Instructor: Mayo Jr,J B
Description: The student teaching seminar is designed to provide initial licensure social studies students an opportunity to reflect on the spring semester student teaching experience with their peers in a supportive learning environment. It is also expected that they will continue to develop and refine the numerous teaching strategies and methods they acquired during the fall student teaching experience, as well as begin to synthesize many of the skills these student teachers learned in previous courses.
Style: 10% Lecture, 40% Discussion, 5% Small Group Activities, 5% Student Presentation, 40% Guest Speakers.

CI 5760 Teaching World Languages and Cultures in Elementary Schools
2 credit(s); prereq 5619, adviser approval; credits cannot be counted on a graduate degree program for endorsement candidates;
Instructor: STAFF
Description: Teaching and learning experiences in a second language setting at the elementary school level. Requires students to work in a public school setting.

CI 5762 Developing Civic Discourse in the Social Studies
S-N only, 1-8 credit(s), max credits 7, 1 repeat allowed; prereq SLC initial licensure program only;
Instructor: Leazer,Jennifer Susan
Description: Student may contact the instructor or department for information.

CI 5763 Developing Civic Discourse in the Social Studies
A-F only, 3 credit(s);
Instructor: Mayo Jr,J B
Description: The student teaching seminar is designed to provide initial licensure social studies students an opportunity to reflect on the spring semester student teaching experience with their peers in a supportive learning environment. It is also expected that they will continue to develop and refine the numerous teaching strategies and methods they acquired during the fall student teaching experience, as well as begin to synthesize many of the skills these student teachers learned in previous courses.
Style: 10% Lecture, 40% Discussion, 5% Small Group Activities, 5% Student Presentation, 40% Guest Speakers.

CI 5768 Student Teaching in Second Languages and Cultures
2 credit(s); prereq Adviser approval; credits cannot be counted on a graduate degree program;
Instructor: STAFF
Description: Student teaching in Second Languages and Cultures at the secondary level for teachers already licensed in another field. Requires students to work in a public school setting.

CI 5769 Clinical Experiences in Second Languages
A-F only, 6-8 credit(s), max credits 16; prereq SLC initial licensure program only;
Instructor: Leazer,Jennifer Susan
Description: Student may contact the instructor or department for information.

CI 5761 Social Studies Education for the Inservice Teacher
Middle/Secondary Teacher
3 credit(s);
Instructor: Jacobs,Benjamin M
Description: Student may contact the instructor or department for information.

CI 5772 Developing Civic Discourse in the Social Studies
A-F only, 3 credit(s);
Instructor: Mayo Jr,J B
Description: This course is designed for middle and high school teachers, and other educators, who wish to improve the quality of discussions in their courses. Through reading and reflecting on educational philosophy, research, and techniques, we will explore key questions about the purposes and methods of incorporating discussion as an instructional strategy into social studies courses. A combination of papers, original lesson plans, and participation in various discussion techniques in class will help participants accomplish their goals, which will promote excellent classroom practices.
Style: 10% Lecture, 60% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 55% reports/papers, 30% special projects, 15% class participation.

CI 5782 Clinical Experiences in Teaching Social Studies
S-N only, 1-8 credit(s), max credits 7, 1 repeat allowed; prereq MED/initial licensure student;
Instructor: Mayo Jr,J B
Description: This course constitutes the student teaching experience. The fall practicum (5 credits) and the spring placement (7 credits) use the same course designation, and neither counts toward the M.Ed.
Style: 100% Laboratory.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CI 5921 Teaching Mathematics in the Elementary School
A-F only, 2 credit(s); prereq Elementary ed or early childhood initial licensure;
Instructor: STAFF
Description: Principles of learning pertinent to the modern program of mathematics in elementary grades. Objectives, content, philosophy, instructional materials and methods of instruction and evaluation.

CI 5900 Special Topics in Family, Youth, and Community: Reflections on Family Life
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Englund, Lynn A.
Description: This course will be of interest to family education students and others interested in exploring and reflecting on the richness, complexity, and diversity of family-life experiences. Students will be asked to share stories of family-life experiences of their choosing related to various areas of family and home. Students will then examine some of the aims and ideals they hold family life and the contexts that may influence them. Students will use reflection to deepen their own understanding of the aims and ideals they hold for family life. Creating satisfying family life in the twenty-first century is challenging due to the complexity of demands on family members, the fast pace of life, and greater uncertainty in family roles. While family education has often focuses on helping families prevent or ameliorate specific problems of family life, few educational offerings have provided opportunities for individuals to step back from their experiences of family life to reflect on and critically examine the aims and ideals they hold for their family of origin, their future family, or current family life. Students will also examine the reflective pedagogical approach as they share everyday narratives of lived experience. The pedagogical approach is based on theories of reflective and experiential learning, social construction of knowledge, and group dynamics.
Style: 65% Discussion, 25% Small Group Activities, 10% Web Based.
Grading: 60% reflection paper, 20% in-class presentation, 20% other evaluation. 12 short reflective journal entries 700-1200 words in length (5% each, 60% total); Learning circle leadership and facilitation (20%); Final presentation and reflective paper (20%).
Exam Format: No exam.

CI 5900 Special Topics in Family, Youth, and Community: Parents as Couples / Couples as Parents
1 credit(s), max credits 20, 20 repeats allowed;
Instructor: Bowman, Ted W
Description: Student may contact the instructor or department for information.

CI 5900 Special Topics in Family, Youth, and Community: Fatherhood
1 credit(s), max credits 20, 20 repeats allowed;
Instructor: Buzzetta, Chris Anthony
Description: Student may contact the instructor or department for information.

CI 5900 Special Topics in Family, Youth, and Community: Creating Curriculum from Community Settings
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Shumer, Robert D
Description: Student may contact the instructor or department for information.

CI 5906 Program Planning in Family Education
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: FE 5301;
Instructor: Walker PhD, Susan K
Description: Education is a key component to effectively working for positive change for all families. Designing and delivering and understanding the impact of effective education programs is a skill required for any professional who works directly with or in support of families. This course supports the development of skill in two key perspectives of family education: outcomes-based education, and empowerment/social change. Through readings, discussion and applied activities students will explore the issues, theories and research for each perspective. Each student will demonstrate competency in the development of two programs representing each perspective as their final projects. The course emphasizes the use of technology in family education program delivery and invites students to be part of a growing dialogue on the use social media in human learning and development.

CI 5914 Education for Family Communication
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: FE 5203;
Instructor: Gentzler, Yvonne
Description: Student may contact the instructor or department for information.

CI 5923 Educational Strategies in Family Education
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: FE 5303;
Instructor: Gentzler, Yvonne
Description: Student may contact the instructor or department for information.

CI 5926 Family and Consumer Sciences Student Teaching III
8 credit(s); prereq 5925;
Instructor: Lundell, Amy Jo
Description: Student may contact the instructor or department for information.

CI 5927 Family and Consumer Sciences Student Teaching IV
1 credit(s); prereq 5926; Credit will not be granted if credit has been received for: WHRE 5699;
Instructor: Lundell, Amy Jo
Description: Student may contact the instructor or department for information.

CI 5937 Parent-Child Interaction
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: FE 5712;
Instructor: STAFF
Description: Analysis and critique of parent-child interaction theory and research; implications for parent-child relationships and parents' and children's development; application in professional work with families.

CI 5942 Everyday Experiences of Families
A-F only, 2 credit(s);
Instructor: Englund, Lynn A.
Description: This internet delivered course examines culture and everyday experiences of diverse families. It is relevant to parent education and the professional development of educators and other professionals who interact with families, such as teachers, community and public health professionals and program coordinators. Research/theoretical knowledge woven with observation/personal reflection. The course is presented in eight weekly course modules. Each of the eight modules will begin on a Wednesday and end on a Tuesday (no class interaction will occur March 15-21 during the week of spring break). Students are required to participate in the four live online chats from 7:00-7:45 p.m central time as shown in the schedule below: Module 1 - begin Wed 02/04, chat Mon 02/09, end Tue 02/10<br>Module 2 - begin Wed 02/11, chat Mon 02/16, end Tue 02/17<br>Module 3 - begin Wed 02/18, chat Mon 02/23, end Tue 02/24<br>Module 4 - begin Wed 02/25, NO CHAT-03/02, end Tue 03/03<br>Module 5 - begin Wed 03/04, chat Mon 03/09, end Tue 03/10<br>Module 6 - begin Wed 03/11, NO CHAT-03/23, end Tue 03/24<br>Module 7 - begin Wed 03/25, chat Mon 03/30, end Tue 03/31<br>Module 8 - begin Wed 04/01, chat Mon 04/06, end Tue 04/07<br>Style: 100% Web Based.
CI 5943 Parent Learning and Development: Implications for Parent Education
A-F only, 2 credit(s);
Instructor: Brown, Michael Patrick
Description: Student may contact the instructor or department for information.

CI 5944 Parent Education Curriculum
A-F only, 2 credit(s); prereq 5943 or instr consent;
Instructor: Brown, Michael Patrick
Description: Student may contact the instructor or department for information.

CI 5945 Teaching and Learning in Parent Education
A-F only, 2 credit(s); prereq 5943 or instr consent;
Instructor: Cutting, Beth J
Description: Student may contact the instructor or department for information.

CI 5946 Assessment and Evaluation in Parent Education
A-F only, 2 credit(s); prereq 5943 or instr consent;
Instructor: Walker PhD, Susan K
Description: Students will be introduced to theory, terminology, issues, and approaches in assessment and evaluation. Students will apply this new material to the tasks of monitoring program performance, assessing program quality, and measuring parent learning and development. This course is taught online for 8 weeks. Asynchronous weekly discussion, weekly synchronous discussion, and short reflection papers are regular features. Student activities include practical application of parent education program evaluation and review of instruments. This course meets a requirement for the Teachers of Parent and Family Education Minnesota Board of Teaching teacher license, and is a required course in the Parent Education Certificate. Style: 100% Web Based.

CI 5949 Student Teaching in Parent Education
A-F only, 2 credit(s); prereq instr consent;
Instructor: Brown, Michael Patrick
Description: Student may contact the instructor or department for information.

CI 5954 Experiential Learning: Pedagogy for Community and Classroom
3 credit(s); prereq credit will not be granted if credit received for: WCFE 5412;
Instructor: Kimball, Lisa
Description: Student may contact the instructor or department for information.

CI 5958 Community: Context for Youth Development Leadership
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: WCFE 5414;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

CI 5960 Seminar in Youth Development Leadership
S-N only, 1-4 credit(s), max credits 4, 4 repeats allowed; prereq YDL student or instr consent credit will not be granted if credit received for: WCFE 5451;
Instructor: Kimball, Lisa
Description: Student may contact the instructor or department for information.

CI 5962 Leadership Field Experience: Youth Development
S-N only, 4 credit(s); prereq YDL student;
Instructor: Kimball, Lisa
Description: Student may contact the instructor or department for information.

CI 5974 The Democratic Learning Community
3 credit(s);
Instructor: Stein, Jerome A
Description: The course will examine the history and philosophy of communities that support learning and inquiry as general processes of social living. Concepts of democracy, community, and learning will be examined drawing on a broad range of perspectives, including Native American and indigenous conceptions, Colonial American ideals, Transcendentalist thought, the tradition of progressivism in American education, and pragmatist and postmodern philosophies. Class discussions will explore education as a way of living that is at the heart of the democratic ideal while also reconsidering what that ideal might be.

CI 8115 Curriculum and Achievement Outcomes in a Diverse Society
A-F only, 3 credit(s); prereq Doctoral student;
Instructor: Walker, Constance L
Description: Student may contact the instructor or department for information.

CI 8131 Curriculum and Instruction Core: Critical Examination of Curriculum in Context
A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;
Instructor: Ngo, Bic
Description: Student may contact the instructor or department for information.

CI 8132 Curriculum and Instruction Core: Teaching Theory and Research
A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;
Instructor: Helman, Lori A
Description: Student may contact the instructor or department for information.

CI 8133 Research Methods in Curriculum and Instruction
A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;
Instructor: Avery, Patricia Grant
Description: Student may contact the instructor or department for information.

CI 8148 Conducting Qualitative Studies in Educational Contexts
3 credit(s); prereq CI MA or PhD student or instr consent;
Instructor: Ngo, Bic
Description: Student may contact the instructor or department for information.

CI 8150 Research Topics Curr & Instruct: Historiography of Curriculum and Schooling
3 credit(s), max credits 12, 12 repeats allowed; prereq [M.A. or Ed.D or Ph.D.] student or instr consent;
Instructor: Jacobs, Benjamin M
Description: Student may contact the instructor or department for information.

CI 8150 Research Topics Curr & Instruct: Narrative Research in Education
3 credit(s), max credits 12, 12 repeats allowed; prereq [M.A. or Ed.D or Ph.D.] student or instr consent;
Instructor: Bequette, James W
Description: Student may contact the instructor or department for information.

CI 8162 Research Experience II: Data Analysis and Manuscript Preparation
OPT No Aud, 3 credit(s); prereq 59161;
Instructor: King PhD, Kendal Amy
Description: Student may contact the instructor or department for information.

CI 8391 Instructional Systems Seminar
1-3 credit(s), max credits 6, 6 repeats allowed; prereq CI grad student or instr consent;  
Instructor: Scharber, Cassie Marie  
Description: Student may contact the instructor or department for information.

CI 8461 Sociocultural Theory, Education, and Literacy  
3 credit(s);  
Instructor: Lewis, Cynthia  
Description: Student may contact the instructor or department for information.

CI 8470 Special Topics on Literacy: The Role of Motivation in Engaged Reading  
3 credit(s), max credits 6, 6 repeats allowed; prereq CI PhD student or instr consent;  
Instructor: O’Brien, David  
Description: Student may contact the instructor or department for information.

Dakota  
19 Scott Hall  

DAKOTA 1122 Beginning Dakota II  
5 credit(s); prereq 1121; Credit will not be granted if credit has been received for: DAKO 4122;  
Instructor: Bendickson, Wayne Joseph  
Description: Student may contact the instructor or department for information.

DAKOTA 3124 Intermediate Dakota II  
5 credit(s); prereq 1121, 1122, 3123; Credit will not be granted if credit has been received for: DAKO 4124;  
Instructor: McKay, Neil Troy  
Description: Student may contact the instructor or department for information.

DAKOTA 4122 Beginning Dakota II  
3 credit(s); prereq [1121, 1004 in another language] or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DAKO 1122;  
Instructor: Bendickson, Wayne Joseph  
Description: Student may contact the instructor or department for information.

DAKOTA 5129 Advanced Dakota Language II  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
Instructor: McKay, Neil Troy  
Description: Student may contact the instructor or department for information.

Dance  
Barbara Barker Center for Dance  

DNCE 1002 Modern Dance Technique 2  
1 credit(s); prereq 1001, dept consent;  
Instructor: Jenson, Matthew Paul  
Description: This course is a continuation of Dance 1001 and the second of a two-sequence introduction course to Modern dance technique. In this course, students will gain greater self-awareness of the body, explore with greater depth the rhythms and dynamics underlying movement and explore orientation of the moving body through space. More emphasis will be placed on longer movement phrases and more in-depth improvisations. Emphasis will also be placed on the successful performance of fundamental elements that comprise modern dance technique. Successful completion of previous level, Modern Dance Technique 1, or departmental approval by audition required for registration.  
Style: Studio

DNCE 1002 Modern Dance Technique 2  
1 credit(s); prereq 1001, dept consent;  
Instructor: Bergeron, Maggie Marie  
Description: This course is a continuation of Dance 1001 and the second of a two-sequence introduction course to Modern dance technique. In this course, students will gain greater self-awareness of the body, explore with greater depth the rhythms and dynamics underlying movement and explore orientation of the moving body in space. More emphasis will be placed on longer movement phrases and more in-depth improvisations. Emphasis will also be placed on the successful performance of fundamental elements that comprise modern dance technique: space, time and energy.

DNCE 1020 Modern Dance Technique 4  
2 credit(s), max credits 4; prereq 1010, dept consent, audition;  
Instructor: Thompson, Erin D  
Description: This course is the fourth level of eight levels of modern dance technique offered in the Dance Program. Classwork is based on practical application of the principles of space, time and energy with specific emphasis on alignment, power from the pelvic center, rotation and turnout, muscular tonality, joint articulation, clarity of intent, musicality, stretch, strength and stamina. Class consists of in-place warm-ups, specific technical exercises and dance phrases applying the technique addressed.

DNCE 1040 Modern Dance Partnering Technique  
A-F only, 1 credit(s), max credits 2; prereq Dance major or instr consent;  
Instructor: Flink, Carl Lindsay  
Description: An exploration and examination of the technical demands, approaches and skills needed for partnering in modern dance. This course is open to dance program majors unless a non-major receives instructor permission to register for it.

DNCE 1102 Ballet Technique 2  
1 credit(s); prereq 1101, dept consent;  
Instructor: Anderson, Tina Nancy  
Description: This class is the second of a two-semester sequence of fundamental ballet technique. Class work is based on the practical application of the principles of classical ballet technique, including body alignment and placement, strength, flexibility, coordination and musicality. By the end of the semester, students should be able to execute all the elements of a basic level ballet class, including barre exercises, center work, turns, and jumps. Audition for technique placement or successful completion of level one with departmental approval required for registration.  
Style: Studio

DNCE 1120 Ballet Technique 4  
2 credit(s), max credits 4; prereq 1110, dept consent, audition;  
Instructor: Anderson, Tina Nancy  
Description: This class is the second of the two-semester sequence in beginning ballet technique - level four in an eight-semester sequence. Class work is based on the practical application of the principles of classical ballet technique, including body alignment and placement, strength, flexibility, coordination and musicality. By the end of the semester, students should be able to execute beginning level ballet vocabulary with ease and confidence and with a physical understanding of classical ballet elements. Audition for technique placement or successful completion of level three with departmental approval required for registration.  
Style: Studio

DNCE 1202 Jazz Technique 2  
1 credit(s); prereq 1201, dept consent;  
Instructor: STAFF  
Description: This is the second of an eight-semester sequence in jazz dance technique/style. Class work will continue to focus on fundamental jazz vocabulary and movement. Clear
articulation of movement will continue to be emphasized, as well as the use of space, weight, dynamics, focus and musicality. The continued use of improvisation will be used to help build one’s self-confidence in dance movement. Successful completion of previous level or departmental approval by audition required for registration.

Style: studio

DNCE 1210 Jazz Technique 4
1 credit(s), max credits 2; prereq 1210, dept consent , audition;
Instructor: Grotting,Karla Kaye
Description: This course is the fourth of an eight-semester sequence of jazz dance technique/style. This class will introduce vocabulary and develop skills, technique, and style used in classical jazz dance while increasing flexibility and strength. Emphasis will be on the use of space, clear articulation of movement, rhythmic footwork, grounding movement, dynamics, and overall musicality (meter, tempo, syncopation, and phrasing).

Style: Studio
Grading: studio

DNCE 1302 Tap Technique 2
1 credit(s), max credits 2; prereq 1210, dept consent , audition;
Instructor: Lee,Linda Talcott
Description: This studio class is the second semester in a six-semester sequence of tap dance technique. This course will focus on the fundamentals of tap dance with an emphasis on musicality and rhythm. Students will continue practice of basic footwork and combinations, beginning time steps, tap routines, and exercises for tap dance improvisation.

DNCE 1310 Tap Technique 2
1 credit(s); prereq 1301 or instr consent;
Instructor: Grotting,Karla Kaye
Description: This course is the fourth of an eight-semester sequence of jazz dance technique/style. Class work will concentrate on the basics of jazz dance and its origins. Movement vocabulary will include American vernacular styles based on the fundamentals of African dance and its strong influence. Emphasis will continue with the use of space, clear articulation of movement, dynamics and overall musicality. Successful completion of previous level or departmental approval by audition required for registration

Style: Studio

DNCE 1313 African Based Movement
1 credit(s);
Instructor: Brown,Patricia
Description: This course will focus on the varied movement of the African Diaspora, primarily West Africa, but not limited to the West Africa region or the continent of Africa. Class will include traditional movement, but will also focus on movement inspired by Africa, the Caribbean, and the African Diaspora at large. Coursework includes in-class movement participation, one movement midterm and one two-page paper.

Style: Studio

DNCE 1320 T'ai Chi Ch'uan
1 credit(s);
Instructor: Abdella,Paul Edward
Description: This course is designed to give students an introduction to T'ai Chi Ch'uan. T'ai Chi Ch'uan is an ancient Chinese slow-motion exercise which provides benefits in the area of health, self-defense, mental development, and meditation. The slow, calm, continuous movements of T'ai Chi help the body and mind to become relaxed and centered by developing natural movement patterns, deep breathing and a tranquil stress-free mind. In addition, each movement has a practical application for self-defense, which is taught in a non-competitive and non-aggressive manner.

DNCE 1401 Introduction to Dance
3 credit(s); Credit will not be granted if credit has been received for: CHIC 1401; Meets CLE req of International Perspective Theme; meets CLE req of Other Humanities Core;
Instructor: Brown,Majia Elizabeth
Description: This newly redesigned course is an introduction to global dance forms in society and art. It covers dance forms and significant issues in dance through lecture, discussion, viewing of live and taped performances and movement experiences. The course presents international perspectives on how dance functions in specific cultural contexts and how dance traditions influence each other as cultures come into close contact with one another. The course begins looking at a selection of dance forms from around the world and will end by exploring how these forms come into the United States contributing to creation of the fusion forms that make up American dance. A main objective is for students to develop the aesthetic, cultural and historical awareness needed to form and articulate, verbally and in writing, ideas and opinions about the art of dance. The course will examine a broad-range of dance traditions including: West African, Middle Eastern, South Indian, Japanese dance theater, European folk dance, ballet, Brazilian, North American Plains Indian, and American forms: tap, jazz, hip hop, modern dance and musical theater. By the end of the course students will be able to recognize a variety of dance traditions and connect their historical development to the specific social, artistic and political currents of their culture.

DNCE 1500 Topics in Dance: Alexander Technique
1 credit(s), max credits 10, 10 repeats allowed;
Instructor: Thompson,Erin D
Description: SECTION 010: The Alexander Technique is a method used to restore our inherent ease, flexibility and coordination. Alexander work is especially useful for dancers, singers, actors and instrumentalists as it enhances fluidity and dynamism in performance. The class will explore kinesthetic awareness, anatomy and body/mind connection, as well as the unconscious habits we develop which interfere with graceful coordination. SECTION 020: This new course is an introduction to Afro-Brazilian Movement, taught by Marciano Silva dos Santos, a native of Brazil. He started to dance formally after a choreographer saw him perform for an acting course he was taking at the Escola de Teatro e Danca FAFI and invited him to intern with the Afro-Brazilian dance company, Negra. After this experience he also began to study ballet and modern dance. He has danced as a member of Negra, Homen Cia de Danca Contemporanea and Bale da Ila. Marciano joined TU Dance in June of 2006.

DNCE 3202 Modern Dance Technique 6
2 credit(s), max credits 4; prereq 3010, dept consent , audition;
Instructor: Flink,Carl Lindsay
Description: This course is the sixth level of eight levels of modern dance technique offered in the Dance Program. The purpose of the technique class is to allow the intermediate and guided relaxation and meditation. Course objectives include proper alignment, proper weight placement, body awareness, relaxation, and breathing techniques. Assignments will include a midterm paper and a movement demonstration final.
Style: Studio
modern dance student to explore and discover him/herself as an articulate and expressive mover. Classwork continues to involve space, time and energy with specific emphasis on alignment, power, momentum, articulation, clarity of intent, musicality, strength, stretch, and stamina. Class consists of in-place warm-ups, technical exercises and dance phrases applying the technique addressed.

DNCE 3020 Modern Dance Technique 6
2 credit(s), max credits 4; prereq 3010, dept consent; audition;
 Instructor: Janczewski, Mathew Jay
 Description: This course is the sixth level of eight levels of modern dance technique offered in the Dance Program. The purpose of the technique class is to allow the intermediate modern dance student to explore and discover him/herself as an articulate and expressive mover. Classwork continues to involve space, time and energy with specific emphasis on alignment, power, momentum, articulation, clarity of intent, musicality, strength, stretch, and stamina. Class consists of in-place warm-ups, technical exercises and dance phrases applying the technique addressed.

DNCE 3120 Ballet Technique 6
2 credit(s), max credits 4; prereq 3110, dept consent; audition;
 Instructor: Pierce, Toni L
 Description: This course is the sixth level of an eight-semester sequence in classical ballet. This course continues to offer the intermediate ballet student principles of ballet technique. Classwork will involve strong emphasis on proper alignment of the body, dynamic timings, and a command of ballet terminology. The class format will begin with barre, followed by a period of stretching. Turning and jumping will be re-introduced at the barre and subsequently transferred to the center. Centerwork will include all aspects of ballet technique including port de bras, adagio, turns, petite allegro and grade allegro. As the semester progresses the combinations will become more complex. A constant correlation between barre and centerwork will be explored. Successful completion of previous level or departmental approval by audition required for registration. Style: Studio

DNCE 3120 Ballet Technique 6
2 credit(s), max credits 4; prereq 3110, dept consent; audition;
 Instructor: Tice, Ronald G
 Description: This course is the sixth level of an eight-semester sequence in classical ballet. This course continues to offer the intermediate ballet student principles of ballet technique. Classwork will involve strong emphasis on proper alignment of the body, dynamic timings, and a command of ballet terminology. The class format will begin with barre, followed by a period of stretching. Turning and jumping will be re-introduced at the barre and subsequently transferred to the center. Centerwork will include all aspects of ballet technique including port de bras, adagio, turns, petite allegro and grade allegro. As the semester progresses the combinations will become more complex. A constant correlation between barre and centerwork will be explored. Successful completion of previous level or departmental approval by audition required for registration. Style: Studio

DNCE 3220 Jazz Technique 6
1 credit(s), max credits 2; prereq 3210, dept consent; audition;
 Instructor: Lee, Linda Talcott
 Description: This course is the sixth of an eight-semester sequence of jazz dance technique/style. Classwork will continue to explore the eclectic range of jazz dance, covering traditional vernacular styles and the more contemporary styles of today. Focus will continue to be placed on increasing technical skill and more complex movement combinations. Stylistic qualities will be explored through improvisation, and emphasis will be placed on clarity of movement, intent, dynamics, phrasing, and expression. Successful completion of previous level or departmental approval by audition required for registration. Style: Studio

DNCE 3302 Tap Technique 4
1 credit(s); prereq 3301 or instr consent;
 Instructor: Keane, Ellen
 Description: This course is the fourth in a six-semester sequence of tap dance technique. This studio class will focus on intermediate skills of tap dance including pick-ups, pull-backs and wings. There will be a continuing emphasis on musicality and rhythm. The class will practice intermediate footwork and combinations, time steps, tap dance routines, and improvisation exercises.

DNCE 3304 Tap Technique 6
1 credit(s); prereq 3303 or instr consent;
 Instructor: Keane, Ellen
 Description: This is the sixth section in the Dance Program six-part Tap Technique sequence. Students explore sophisticated musicality, complex rhythm structures, shading, and grace moves to music of different periods. Improvisation exercises explore phrasing, context and theme toward developing choreography. Tap history and culture are explored in depth.

DNCE 3337 Body Mind Centering
2 credit(s);
 Instructor: Fargnoli, Margaret
 Description: This class provides an overview of Body-Mind Centering, a new approach to movement, mind and body developed over the past thirty years by Bonnie Bainbridge Cohen, O.T. Classwork includes improvisational movement explorations, hands-on re-patterning work and discussion designed to give direct experience of the way mind (desire, attention, and intention) is expressed through the various body systems. These systems are the skeletal, organ, muscle, fluid, nervous, and endocrine. In addition, students will study developmental movement, the baby movements that underlie our more complex adult movement. Imagery, touch, and anatomical information will be used as tools to help students access a range of inner sensations and movement experiences. Emphasis will be on the acknowledgement of each individual's unique experience of the body, as well as on the experiences we share as human beings. This class is experiential and includes movement, touch, lecture and class discussion. Students can expect to spend two to three hours per week in outside reading and keeping a journal. There is one quiz and one take home exam.

DNCE 3402W Dance History 2
3 credit(s); prereq 3401, dance major; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
 Instructor: Brown, Maija Elizabeth
 Description: Dance History 2 is the second semester in a yearlong sequence of Dance History. This course continues the study of ballet's beginnings, examining the development of ballet through baroque and romantic periods in France, then through its evolution in Russia with the ultimate development of Ballet Russes. With modernism, the focus shifts through Germany to America and the course works through the achievements of the pioneers to a general disillusionment with their work into the development of postmodern dance and its different phases. Successful completion of previous level or departmental approval required for registration

DNCE 3411 Dance and Popular Culture: Choreographing Race, Class, and Gender
3 credit(s); prereq Jr or sr;
 Instructor: Garcia, Cindy
 Description: This course addresses the ways in which race, class, and gender become aestheticized and put into motion in/as popular culture. We will interpret sites of movement in popular culture broadly, allowing us to consider bodies on stages, screens, and through social practices, for example: staged performances of popular dance, motion picture versions
of ballet or karate, animations of dancing penguins, and henna tattooing practices at parties. We will begin this course with an analysis of "dance," "popular," and "culture." Through choreographic analysis of moving bodies, we will examine how the term "popular" affects understandings of culture and the implications of theorizing culture as action. Concepts studied also include exoticism, binary structures of stereotypes, identity, and hegemony. This course fulfills the Cultural Diversity Theme requirement.

DNCE 3433 Articulate Body
3 credit(s); prereq Dnce major, dept consent;
Instructor: STAFF
Description: This course will cover an introduction to kinesiology and biomechanics of dance. At the end of this course students will be able to the knowledge they gain of anatomical, physiological, and biomechanical principles to dance technique, conditioning and injury prevention. Classwork will include lecture, group exploration, readings, class projects, demonstrations, quizzes and a final exam.

DNCE 3500 Topics in Dance
1-3 credit(s), max credits 10, 10 repeats allowed;
Instructor: STAFF
Description: In this course, participants will learn and research effective ways to improve their nutrition and remain injury-free throughout their dance careers and beyond. Nutrition principles will be discussed in-depth and applied to the unique challenges, needs and interests of dancers. General anatomy of movement will be examined in order to develop constructive ways to prevent and manage injuries. Another course focus will be on stress reduction techniques designed to provide participants with tools to meet the grueling demands of a dance career.

DNCE 3601 Dance Composition 1
3 credit(s); prereq 1020, 1601, concurrent regis in a modern dance technique course, dept consent;
Instructor: Mann, Paula
Description: This course is the second part of a six-semester sequence in Dance Composition. In this course, form and structural techniques will be explored through the creation, presentation and critique of solo studies. In-class work will consist of improvisation, experimentation, revision and analysis of movement in relation to space, time and energy, both as an end in itself and as a means to express ideas, emotions and narrative. Successful completion of Improvisation or departmental approval required for registration.

DNCE 3601 Dance Composition 1
3 credit(s); prereq 5120, 1601, concurrent regis in a modern dance technique course, dept consent;
Instructor: Bergeron, Maggie Marie
Description: This course is the second part of a six-semester sequence in Dance Composition. In this course, form and structural techniques will be explored through the creation, presentation and critique of solo studies. In-class work will consist of improvisation, experimentation, revision and analysis of movement in relation to space, time and energy, both as an end in itself and as a means to express ideas, emotions and narrative.

DNCE 3622 Dance Production II
A-F only, 2 credit(s); prereq 3621, dance major, dept consent;
Instructor: Schock, Bonnie J
Description: In this course students will study the technical and administrative aspects of dance production. This includes lighting, costumes, sound, marketing, stage management, fundraising and publicity. Emphasis will be placed on learning practical project management and personal management skills. This course is a continuation of DNCE 3621 - Dance Production. 1. Students in this course will produce the Student Dance Concert in the Spring.

DNCE 3700 Performance
1 credit(s), max credits 4; prereq Concurrent enrollment in a technique course, audition, dept consent;
Instructor: Mann, Paula
Description: Student may contact the instructor or department for information.

DNCE 3901 Survival Strategies in Dance
A-F only, 3 credit(s); prereq Dance major, dept consent;
Instructor: STAFF
Description: In this course students will explore basic strategies fundamental to a dancer's survival. Essential knowledge about injury prevention and care; the development of healthy dietary and muscular/skeletal habits; and information on career tracks in dance are covered.

DNCE 4601 Dance Composition 3
3 credit(s); prereq 3602, concurrent regis in a modern dance technique course, dept consent;
Instructor: Smith, Jean Anne
Description: This course is the fourth of a six-semester sequence in Dance Composition. Class work will consist of exploration and restructuring of dances for groups. Course Objectives include: developing and understanding and appreciation for the craft of group choreography, exploring the creative process, discovering movement vocabulary, and acquiring skills of compositional structures for groups.

DNCE 5020 Modern Dance Technique 8
2 credit(s), max credits 4; prereq 5010, dept consent, audition;
Instructor: Thompson, Erin D
Description: This course is the eighth level of eight levels in modern dance technique. This course will offer a variety of modern dance techniques and styles from various instructors and guest artists. This course is intended for the advanced dance major. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio

DNCE 5120 Ballet Technique 8
1 credit(s), max credits 2; prereq 5110, dept consent, audition;
Instructor: Leon, Barry D
Description: This course is the eighth in an eight-semester sequence of ballet technique. This advanced level ballet class will emphasize and further develop the following skills: clarity of arms and head positions, a strong stance, stability and balance, coordination of the joining of steps, use of feet in jumps, the ability to reverse and remember movement combinations. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio

DNCE 5220 Jazz Technique 8
1 credit(s), max credits 2; prereq 5210, dept consent, audition;
Instructor: Lee, Linda Talcott
Description: This course is the fourth of a six-semester sequence in dance composition. Class work will consist of improvisation, experimentation, revision and analysis of movement in relation to space, time and energy, both as an end in itself and as a means to express ideas, emotions and narrative.

DNCE 5493 Corporeality, Movement, and Social Justice: Staging "Equitable" Choreographies
A-F only, 3 credit(s); prereq 4443 recommended;
Instructor: Chatterjea, Ananya
Description: The course investigates the possibilities and implications of artistic work, with particular emphasis on metaphoric bodily practices and intersections of performance and social justice practices. Students examine theories and histories of such intersections within communities of color across
global North and South, culminating in a group project.

DNCE 5500 Topics in Dance: Body-Mind Centering 4: Muscles, Endo Sys & Imm Sys
2 credit(s), max credits 10, 10 repeats allowed;
Instructor: Fargnoli,Margaret
Description: This level of Body-Mind Centering classes concentrates on two or three of the body systems explored in level 1. This semester is devoted to the Muscle System, Endocrine System and Immunity. It will emphasize experiential embodiment, detailed hands on touch and re patterning techniques and the integration of the muscles and glands within the developmental movement framework. Texts include Wisdom of the Body Moving by Linda Hartley and the Anatomy Coloring Book, 3rd Edition and The Human Immune System, by Dirck Dimock. Students will be required to keep a weekly journal and do homework assignments that include reading and coloring. This takes between two and three hours per week. There will be a take home exam.

DNCE 5500 Topics in Dance: Globalization and Mobility: Performance Ethnograph
3 credit(s), max credits 10, 10 repeats allowed;
Instructor: Garcia,Cindy
Description: Socioeconomic polarization is often disavowed amidst proclamations of globalization’s democratizing, unifying capabilities and uncritical celebrations of multiculturalism. In this class, we will examine the relationship between economic globalization, cultural globalization, and performance. The focus of this course will be to learn ethnographic methods relevant to the analysis of performing bodies. We will critically analyze the written construction of performance ethnographies and discuss ethnographic trajectories in an age of globalization. Students will undertake short-term, local ethnographic projects, engaging in practices of participant observation, taking fieldnotes, writing up scenes, and critically analyzing the politics of raced, classed, and gendered bodies in motion.

DNCE 5601 Dance Composition 5
1 credit(s); prereq 4601, 4602, dept consent ;
Instructor: Mann,Paula
Description: This course is the final part of a six-semester sequence in Dance Composition. Class work consists of exploration and investigation of movement through independently scheduled rehearsals. Choreographic concepts will focus on the continued study of tools in the dance creation process, development and refinement of movement, and structure of group choreography and collaborative projects.

DNCE 5993 Directed Studies
1-4 credit(s), max credits 10, 10 repeats allowed; prereq instr consent , dept consent , college consent ;
Instructor: Chatterjea,Ananya
Description: Student may contact the instructor or department for information.

DAN 1002 Beginning Danish
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: DAN 4002;
Instructor: Vestergaard Riis,Soren Martin
Description: Student may contact the instructor or department for information.

DAN 1004 Intermediate Danish
5 credit(s); prereq 1003; Credit will not be granted if credit has been received for: DAN 4004;
Instructor: Vestergaard Riis,Soren Martin
Description: Student may contact the instructor or department for information.

DAN 4002 Beginning Danish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DAN 1002;
Instructor: Vestergaard Riis,Soren Martin
Description: Student may contact the instructor or department for information.

DAN 4004 Intermediate Danish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DAN 1004;
Instructor: Vestergaard Riis,Soren Martin
Description: Student may contact the instructor or department for information.

Dental Hygiene
9-406 Malcolm Moos Health Sciences Tower

DH 2212 Dental Hygienist-Patient Relationship
A-F only, 2 credit(s); prereq DH student;
Instructor: STAFF
Description: This course introduces the use of clinical research and evidence-based clinical decision making when communicating scientifically based clinical therapy and treatment modalities; and promotion of active participation by the patient in clinical decision making.

DH 2215 Oral Histology and Embryology
A-F only, 2 credit(s); prereq DH student;
Instructor: Gopalakrishnan,Rajaram
Description: Student may contact the instructor or department for information.

DH 2221 Periodontology
A-F only, 3 credit(s); prereq DH student;
Instructor: STAFF
Description: This course introduces periodontal diseases; etiology, assessment and treatment options. It includes clinical experience in debridement, root planing with ultrasonic and hand instruments.

DH 2221 Periodontology
A-F only, 3 credit(s); prereq DH student;
Instructor: Osborn,Joy B
Description:

DH 2222 Dental Hygiene Care Process Clinical Application II
A-F only, 3 credit(s); prereq DH student;
Instructor: STAFF
Description: This course introduces the School of Dentistry clinical systems. It covers various medical and emergency conditions affecting patient care and preventative strategies for dental diseases. It covers skill development in fluoride, sealents, and air polishing techniques. Includes evaluation of products used in the treatment of dental caries and periodontal diseases.

DH 2231 Cariology and Applied Nutrition in Dental Hygiene Care
A-F only, 3 credit(s); prereq DH student;
Instructor: Danielson,Judy Ann
Description: Student may contact the instructor or department for information.

DH 3227 Oral and Maxillofacial Radiology Clinic II
A-F only, 0 credit(s); prereq DH student;
Instructor: STAFF
Description: This course introduces exposing patient radiographs, interpretation, panoramic and extraoral technique, and quality assurance procedures.

DH 4125W The Dental Hygiene Care Process Clinical

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DH 4130 Management and Supervision of a Dental Practice
A-F only, 2 credit(s); prereq Current Dental Hygiene Program student;
Instructor: STAFF
Description: This course is a lecture series designed to establish skills in planning, organizing, leading, and controlling the clinical, business, and human aspects of a dental practice.

DH 4135W Research Methods in Dental Hygiene
A-F only, 3 credit(s); prereq DH student; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: In this course you will develop skills in the scientific method and analyzing research findings. There is emphasis on types of research, problem selection, hypothesis writing, research planning and design, data collection and measuring techniques, analysis and interpretation of data, and writing the research proposal.

DH 4136 Periodontology III Lecture
A-F only, 1 credit(s); prereq DH student;
Instructor: Bakdash,Bashar
Description: Student may contact the instructor or department for information.

DH 4139 Dental Public Health and Academic Service Learning II
A-F only, 2 credit(s); prereq DH student;
Instructor: Basile,Sarah Mae
Description: Student may contact the instructor or department for information.

DH 4211 Principles of Restorative Techniques II
S-N only, 3 credit(s);
Instructor: Dittmar,Susan Kyle
Description: Student may contact the instructor or department for information.

DH 4226 Dental Hygiene Care Process Clinical Application VI
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq DH student;
Instructor: Ahmann,Lisa Webb
Description: Student may contact the instructor or department for information.

DH 4233 Legislative, Social, Economic, and Practice Factors in Oral Health
A-F only, 2 credit(s); prereq DH student;
Instructor: Dittmar,Susan Kyle
Description: Student may contact the instructor or department for information.

DH 4302 Dental Hygiene Care: Special Needs Patients
A-F only, 2 credit(s); prereq DH student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DH 4303 Information Literacy
S-N only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DH 5409 Dental Hygiene Clinic Administration
A-F only, 2 credit(s); prereq Dental hygiene grad student;
Instructor: Ahmann,Lisa Webb
Description: Student may contact the instructor or department for information.

DH 5413 Dental Hygiene Supervised Clinic Student Teaching
A-F only, 3 credit(s); prereq Dental hygiene grad student;
Instructor: Stoltenberg,Jill L
Description: Student may contact the instructor or department for information.

DENT 5121 Physical Evaluation I
A-F only, 2.9 credit(s);
Instructor: Hamamot,Darryl T
Description: Student may contact the instructor or department for information.

DENT 5201 Pain and Anxiety Control
A-F only, 1.2 credit(s);
Instructor: Kademan,Deepak
Description: Student may contact the instructor or department for information.

DENT 5301 Introduction to Oral Biology
S-N only, 1.1 credit(s), max credits 2.2;
Instructor: Rudney,Joel David
Description: Student may contact the instructor or department for information.

DENT 5302 Topics in Dental Biochemistry
A-F only, 1.1 credit(s);
Instructor: Rudney,Joel David
Description: Student may contact the instructor or department for information.

DENT 5315 Oral Histology and Embryology and Medical Genetics
A-F only, 2.6 credit(s);
Instructor: Gopalakrishnan,Rajaram
Description: Student may contact the instructor or department for information.

DENT 5351 Introduction to Dental Biomaterials
A-F only, 0.7 credit(s);
Instructor: Combe,Edward Charles
Description: Student may contact the instructor or department for information.

DENT 5402 Prevention and Oral Health Promotion
A-F only, 2.3 credit(s);
Instructor: Born,David Omar
Description: Student may contact the instructor or department for information.

DENT 5405 Interprofessional Ethics Education
S-N only, 1 credit(s);
Instructor: Berthold,Peter
Description: Student may contact the instructor or department for information.

DENT 5412 Professional Problem Solving
A-F only, 1 credit(s);
Instructor: Bebeau,Muriel J
Description: Student may contact the instructor or department for information.

DENT 5441 Patient Management II
S-N only, 4.1 credit(s);
DENT 5805 Operative Dentistry III
A-F only, 3.8 credit(s); prereq Operative Dentistry [I, II], Operative Dentistry [I, II] Lab;
Instructor: Lee, Ignatius Kaiyan
Description: This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

DENT 5903 Preclinical Prosthodontics Lecture II
A-F only, 2 credit(s); prereq 5901, 5902;
Instructor: Adarve, Ranier Marfil
Description: Student may contact the instructor or department for information.

DENT 5904 Preclinical Prosthodontic Technique Laboratory II
A-F only, 2 credit(s); prereq 5901, 5902;
Instructor: Adarve, Ranier Marfil
Description: Student may contact the instructor or department for information.

DENT 5909 Preclinical Prosthodontics Technique Lecture V
A-F only, 3.3 credit(s); prereq 5901, 5902, 5903, 5904, 5905, 5906, 5907, 5908;
Instructor: Conrad, Heather Joan
Description: This lecture/laboratory course is designed to provide the student with a fundamental level of theory and practice in complete denture construction. The purpose of this preclinical course is to introduce concepts of diagnosing, treatment planning, and treatment sequencing for the edentulous patient, as well as skill and knowledge necessary to restore form and function with complete dentures. The lecture and laboratory components will introduce the student to the instruments, terminology, basic principles, and technical/clinical procedures, used to fabricate complete dentures. This course should be considered as part of a continuum to expand on the fundamentals of removable partial dentures that are presented in Dent 5907/8 Preclinical Prosthodontics Technique IV, and provide the student with the fundamental knowledge and foundational skills to advance to Dent 5911/12 Introduction to Clinical Implant Dentistry and Dent 6921 Removable Prosthodontics Clinic I.

DENT 5910 Preclinical Prosthodontics Technique Laboratory V
A-F only, 3 credit(s); prereq 5901, 5902, 5903, 5904, 5905, 5906, 5907, 5908;
Instructor: Conrad, Heather Joan
Description: This lecture/laboratory course is designed to provide the student with a fundamental level of theory and practice in complete denture construction. The purpose of this preclinical course is to introduce concepts of diagnosing, treatment planning, and treatment sequencing for the edentulous patient, as well as skill and knowledge necessary to restore form and function with complete dentures. The lecture and laboratory components will introduce the student to the instruments, terminology, basic principles, and technical/clinical procedures, used to fabricate complete dentures. This course should be considered as part of a continuum to expand on the fundamentals of removable partial dentures that are presented in Dent 5907/8 Preclinical Prosthodontics Technique IV, and provide the student with the fundamental knowledge and foundational skills to advance to Dent 5911/12 Introduction to Clinical Implant Dentistry and Dent 6921 Removable Prosthodontics Clinic I.

DENT 5915 Clinical Occlusion
A-F only, 1.3 credit(s), max credits 2.6; prereq Enrolled in dentistry program;
Instructor: Anderson, Gary Carl
Description: Clinical variation in occlusion encountered in a typical clinical setting. Guidelines to manage this variation.

DENT 6021 Senior Outreach Experience
S-N only, 6.4 credit(s); prereq 4th yr student in Dentistry Program;
Instructor: Schulz DDS, Paul D
Description: This outreach course is designed to involve students in a variety of clinical settings throughout Minnesota, exposing them to patient populations of diverse age, ethnicity and need. Included in this course is a strong commitment to initiate student involvement in community health education promotion and service opportunities. Students will also provide dental care to under served populations while being supervised by adjunct faculty from the University of Minnesota School of Dentistry.
Style: 5% Web Based. 95% addressing patient based dental education or care.
Grading: 25% journal. 75% Patient communication and clinical care skills. Students must complete course evaluation to receive a grade.

DENT 6051 Comprehensive Care Clinic II
A-F only, 2 credit(s); prereq 6050;
Instructor: Gambucci, James Robert
Description: Student may contact the instructor or department for information.

DENT 6051 Comprehensive Care Clinic III
A-F only, 2 credit(s); prereq 6050;
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.

DENT 6122 Physical Evaluation II
A-F only, 1.8 credit(s);
Instructor: Rhodus, Nelson L
Description: Student may contact the instructor or department for information.

DENT 6132 Oral Medicine/Diagnosis Clinic II
A-F only, 1 credit(s);
Instructor: Rhodus, Nelson L
Description: Student may contact the instructor or department for information.

DENT 6133 Oral Medicine/Diagnosis Clinic III
A-F only, 1 credit(s);
Instructor: Rhodus, Nelson L
Description: Student may contact the instructor or department for information.

DENT 6221 Oral & Maxillofacial Surgery Clinic Rotation
S-N only, 2 credit(s);
Instructor: Swift, James Q
Description: Student may contact the instructor or department for information.

DENT 6203 Oral and Maxillofacial Surgery II
A-F only, 1 credit(s); prereq Oral Surgery I;
Instructor: Basi, David Lawrence
Description: Student may contact the instructor or department for information.

DENT 6221 Oral & Maxillofacial Surgery Clinic Rotation
S-N only, 2 credit(s);
Instructor: Swift, James Q
Description: Student may contact the instructor or department for information.

DENT 6316 Oral and Maxillofacial Pathology
A-F only, 3.1 credit(s);
Instructor: Koutlas, Ioannis George
Description: Student may contact the instructor or department for information.

DENT 6318 Oral and Maxillofacial Pathology Independent Study
S-N only, 1 credit(s), max credits 2;
Instructor: Rohrer, Michael D
Description: Student may contact the instructor or department for information.

DENT 6414 Professional Problem Solving
S-N only, 0 credit(s);
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>DENT 6421</td>
<td>The Management and Supervision of a Dental Practice</td>
<td>A-F 2</td>
<td>Carlson, Jeffrey F</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>DENT 6625</td>
<td>Periodontology Clinic</td>
<td>A-F 1</td>
<td>Bakdash, Bashar</td>
<td>Description: May contact the instructor or department for information.</td>
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<td>DENT 6613</td>
<td>Periodontology III Lecture</td>
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<td>Carlson, Jeffrey F</td>
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<td>A-F 2</td>
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<td>DENT 6625</td>
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<td>A-F 1</td>
<td>Bowles, Walter Ray</td>
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<td>DENT 6712</td>
<td>Endodontic Clinic</td>
<td>A-F 2</td>
<td>Miller, Robert Rodange</td>
<td>Description: May contact the instructor or department for information.</td>
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<td>DENT 6714</td>
<td>Endodontic Topics for the General Dentist</td>
<td>S-N 0</td>
<td>Klein, David William</td>
<td>Description: May contact the instructor or department for information.</td>
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<td>DENT 6812</td>
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<td>DENT 6815</td>
<td>Operative Dentistry Clinic</td>
<td>A-F 4</td>
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<td>DENT 6817</td>
<td>Fixed Prosthodontics I</td>
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<td>DENT 6819</td>
<td>Fixed Prosthodontics I</td>
<td>A-F 1</td>
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<td>DENT 6840</td>
<td>Introduction to CAD/CAM CEREC Restorations</td>
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<td>DENT 6911</td>
<td>Prosthodontics I and II Lab</td>
<td>S-N 2</td>
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<td>DENT 6922</td>
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<td>DENT 7021</td>
<td>Contemporary Diagnosis and Management of Orofacial Pain</td>
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<td>Bowles, Walter Ray</td>
<td>Description: May contact the instructor or department for information.</td>
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DENT 7032 Field Experience: Administration in a Multidisciplinary Health Center
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Shuman, Stephen K
Description: Student may contact the instructor or department for information.

DENT 7033 Teaching and Evaluation in Dentistry
A-F only, 3 credit(s); prereq Dent or OBio grad student or instr consent;
Instructor: Born, David Omar
Description: Student may contact the instructor or department for information.

DENT 7052 Oral and Maxillofacial Radiologic Interpretation
A-F only, 2 credit(s);
Instructor: Ahmad, Mansur
Description: Student may contact the instructor or department for information.

DENT 7062 Special Oral Pathology II
A-F only, 2 credit(s); prereq 7061, resident [or grad student] in discipline other than oral pathology;
Instructor: Koutlas, Ioannis George
Description: Student may contact the instructor or department for information.

DENT 7101 Management Philosophy for Dental Practices
S-N only, 1 credit(s); prereq Dentistry grad student;
Instructor: Hinrichs, James Edward
Description: Student may contact the instructor or department for information.

DENT 7121 Psychological Issues in Medical and Dental Patient Management
1 credit(s);
Instructor: Hathaway, Kate M
Description: Student may contact the instructor or department for information.

DENT 7991 Independent Study
OPT No Aud, 1-4 credit(s), max credits 8; prereq Enrolled in an advanced dental education program;
Instructor: Shuman, Stephen K
Description: Student may contact the instructor or department for information.

DENT 7992 Hospital Emergency on Call
S-N only, 1-4 credit(s), max credits 8;
Instructor: Anderson, Gary Carl
Description: Student may contact the instructor or department for information.

DENT 8031 Topics and Problems in Dental Education
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Born, David Omar
Description: Student may contact the instructor or department for information.

DENT 8120 Advanced Principles and Techniques of TMJ and Orofacial Pain Disorders
A-F only, 3 credit(s); prereq Participation in TMJ and orofacial pain advanced education program;
Instructor: Fricton, James Ryan
Description: Student may contact the instructor or department for information.

DENT 8121 Current Literature in TMJ and Craniofacial Pain
A-F only, 1 credit(s);
Instructor: Mulet Pradera DDS, MS, Mariona
Description: This course provides the student with information necessary to critically review TMD and orofacial pain literature. It is also designed to broaden knowledge of research conducted on TMD and pain management. Understanding of research methodology is emphasized. Students are assigned journal articles and critically review them.
Style: 40% Lecture, 60% Discussion.
Grading: 50% in-class presentation, 50% class participation.

DENT 8123 Advanced Topics in Orofacial Pain
A-F only, 3 credit(s); prereq Grad student in dentistry or other health sciences grad student or instr consent;
Instructor: Hathaway, Kate M
Description: Student may contact the instructor or department for information.

A-F only, 3 credit(s), max credits 3, 1 repeat allowed; prereq Fr;
Instructor: Solomonson, Katherine Mary
Description: Student may contact the instructor or department for information.

DES 1910W Freshman Seminar: Heritage Landscapes: Planning & Design Special Plc
A-F only, 3 credit(s), max credits 3, 1 repeat allowed; prereq Fr; Meets CLE req of Writing Intensive;
Instructor: Nunnally, Patrick
Description: Planning and Design for the World's Most Special Places. Students will build basic college-level skills in research, analysis, writing, and presentation of their ideas, while learning the particular sets of skills and issues that are part of education in landscape architecture. Students in this class will gain basic familiarity with the kinds of issues the Center for World Heritage Studies addresses.
Grading: 15% reports/papers, 15% quizzes, 70% written homework.

DES 3160 Topics in Design: Strategic Career Planning for Design
A-F only, 1 credit(s), max credits 24, 6 repeats allowed;
Instructor: Perman, Heidi J
Description: Student may contact the instructor or department for information.

DES 3160 Topics in Design: Strategic Career Planning for Design
A-F only, 1 credit(s), max credits 24, 6 repeats allowed;
Instructor: Reile, Lucy
Description: Are you interested in learning about effective job and internship search skills in the field of design? Take this 1 credit course that covers topics to help prepare you for the job/internship search including: writing effective design resumes, skills assessment, and interviewing and job searching in design fields. Professionals from the design industry will also participate on panels to help provide students with tips and suggestions for a strong portfolio and advice from the employer side. This course is for undergraduate students in design majors seeking internships and/or full time work.
Style: 50% Lecture, 10% Discussion, 15% Small Group Activities, 20% Guest Speakers.
Grading: 35% reports/papers, 40% special projects, 10% class participation, 15% other evaluation.

Design Institute
101 Rapson Hall

DES 3010 Travels in Typography: Design Institute Seminar
A-F only, 3 credit(s);
DES 3040 Introduction to Furniture Design: Design Institute
Case Study Seminar
A-F only, 3 credit(s); prereq: Design minor or instr consent.
Instructor: Oliphant, Thomas Arthur
Description: This course will introduce the topic of Furniture Design as discipline, not as method. Material, sensual, and aesthetic, both sublime and mundane; the objects that mediate our environment will be examined within broad context. History, Design Criteria, Technology and Craft will be discussed. Projects will include both a group case study research presentation, and the individual making/presenting of a concept-prototype.

DES 3050 Streetlife Urban Design Seminar
A-F only, 3 credit(s);
Instructor: Schulte, Marcy Lynn
Description: In this seminar, we will focus on the street, not just defined as the gap between buildings or between destinations but as a place in itself. With street and streetlife as the subject of our inquiry, we will consider case studies and envision possible transformations through discourse, dissection and analysis. In this course, students will examine and make projects that reconfigure city spaces based on their assessment of how our daily lives interact with the street. Our investigations will be guided by readings in urban studies, geography, design, economics and art history. Guest lecturers may include landscape architects, urban designers, public artists and engineers.

DES 3061 (Un)wrapping It Up: New Materials for Design, Design for New Materials
A-F only, 3 credit(s);
Instructor: STAFF
Description: Are you interested in Architecture and product design? Do you feel restricted by wood, stone and plastic? Learn how new materials influence your work! In this seminar, we will explore the nature of new high-tech materials that have been revolutionizing many design arenas, from architecture to clothing, from products to landscapes and in between. A highly popular recent Cooper-Hewitt National Design Museum exhibition, "Extreme Textiles: Designing for High Performance," brought international attention to this exciting field of material development, as examples of specialty textiles carried scientific instruments to the surface of Mars, helped bring first responders safely back from volatile environments, and one billion people watched soccer teams compete for the World Cup in fabric-clad stadiums. In this course, students will learn about new materials - such as high-tech fabrics, foils, electrotextiles, and so-called "intelligent textiles" that respond to environmental stimuli - through hands-on materials research and testing of prototypes. Cross-disciplinary student teams will explore "appropriate use" modeling and applications, testing their design ideas through several quick-one-week projects, leading to a larger, more integrated project at term's end. Seminar instructor: Bruce Wright, Editor, Fabric Architecture magazine, <ahref='http://www.bnwright@ifai.com'>http://www.bnwright@ifai.com/</ahref>

DES 4001 Design Minor Seminar
A-F only, 3 credit(s); prereq: Design minor;
Instructor: Hemmis, Patricia
Description: In this course, we will examine the powerful role of metaphors and related tropes when conceptualizing meanings within the designed environment. We will explore Lakoff and Johnson's notion that "our ordinary conceptual system is metaphorical in nature, and that as a result, metaphors affect the ways we perceive, think and act." We will use these ideas to raise questions about the role of tropes in the designed environment. Through discussion and assignments, students will analyze fundamental metaphoric conceptualizations in addition to identifying and analyzing newly emerging metaphors. We will examine the current role of metaphor in the design process and explore the possibility of an expanded usefulness.

Design, Housing, and Apparel
240 McNeal Hall

DHA 1101W Introduction to Design Thinking
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: LA 1101W; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Hemmis, Patricia
Description: This course is an introduction to the theories and processes that underpin design thinking and practice. Students investigate the interactions between humans and their natural, social, and designed environments purposefully. Design helps determine the quality of those interactions, the practice of the design professions, and the power of design in culture. This course is intended for undergraduate students with an interest in pursuing design and design-related areas as professions: through clothing design, architecture, interior design, graphic design, housing studies, product design, landscape architecture, urban design, and planning, and retail merchandising. This course is also a primary core requirement in the U of M undergraduate design minor. Secondary audiences might be any students who are interested in diverse types of thinking or design processes. This course creates an opportunity for all design and design-related students to be in the same classroom, learning from faculty and practitioners of different design specializations, and learning from one another. This setting exposes students to all facets of design and provides them an interdisciplinary perspective about design and human behavior. For non-design students, the course offers the opportunity to raise their awareness about the value and the power of design in our culture. Text: Lawson, B. (1997) "How Designers Think", Oxford, England: Architectural Press.
Style: 70% Lecture, 25% Discussion. Videos, and one on-campus field trip
Grading: 68% reports/papers, 20% problem solving, 13% other evaluation. Design journal

DHA 1201 Clothing Design, Merchandising, and the Consumer
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Johnson, PhD, Kim KP
Description: In this course I provide students with an orientation to the apparel business, emphasizing ethical dimensions of decision-making regarding the delivery of textile and apparel products to the ultimate consumer. Topics covered include development of the fashion system and the ready-to-wear industry; early ethical positions on the use of labor; how consumer demand fuels fashion; apparel manufacturing and sweat-shop labor; business and legal framework for the industry; types of retailers and retailing; retail functions; retailer as citizen of the community. To address these topics I use a variety of learning approaches including videos, guest speakers, in-class exercises, case studies, and readings. The course is web enhanced thru WebCT.
Style: 50% Lecture, 20% Discussion. Guest speakers, videos
Grading: 25% final exam, 25% quizzes, 10% class participation, 40% other evaluation. 3 exams given during the semester
Exam Format: Multiple choice, true/false, fill in the blank

DHA 1201 Clothing Design, Merchandising, and the Consumer
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Sklar, Monica
Description: In this course I provide students with an orientation
to the apparel business, emphasizing ethical dimensions of decision-making regarding the delivery of textile and apparel products to the ultimate consumer. Topics covered include development of the fashion system and the ready-to-wear industry; early ethical positions on the use of labor; how consumer demand fuels fashion; apparel manufacturing and sweat-shop labor; business and legal framework for the industry; types of retailers and retailing; retail functions; retailer as citizen of the community. To address these topics I use a variety of learning approaches including videos, guest speakers, in-class exercises, case studies, and readings. The course is web enhanced thru WebCT.

**Style:** 50% Lecture, 20% Discussion. Guest speakers, videos

**Grading:** 25% final exam, 25% quizzes, 10% class participation, 40% other evaluation. 3 exams given during the semester

**Exam Format:** Multiple choice, true/false, fill in the blank

DHA 1203 Computer Literacy and Problem Solving

**A-F only, 3 credit(s); prereq Retail merchandising major or instr consent ;

**Instructor:** Robertson, Douglas Frederick

**Description:** Students learn concepts and develop competencies in computer technologies most often used in social sciences and in business to help solve problems. Topics include using advanced word processing techniques to create complex written documents such as reports (including character and paragraph style sheets, mailmerge, formatting, tables, graphics, cross-references, headers, footnotes, and indexes), using an electronic spreadsheet to analyze data (including formulas, IF/THEN/ELSE, LOOKUP, different types of graphs, formatting), using a database management program to store, organize, and query data (including creating customized databases, modifying database structure, data verification and formatting, creating forms and reports, exporting/importing data, data extraction), and using presentation software to communicate ideas and findings in a multimedia format (including text, clipart, photos, tables, animations, and audio) to larger groups. Integration of the four applications is introduced. This is a computer-mediated course and there are no lectures. The instructor helps students individually during class as they work on course projects. Course uses Microsoft Office 2007 for Windows.

**Style:** Students work on computers and get help from the instructor.

**Grading:** 30% mid exam, 35% final exam, 35% written homework.

**Exam Format:** Exams done on the computers in the classroom. Students modify files as instructed.

DHA 1315 Foundations: The Graphic Studio

**A-F only, 4 credit(s); prereq [DHA major or pre-major] or instr consent;

**Instructor:** STAFF

**Description:** This class will provide an overview of the design communication process including creative procedures, terminology, and technology, and will introduce the use of current computer applications. Students will gain skills in digital illustration and page layouts, and image- scanning and manipulation. Graphic design elements of typography, production, color separation, printing process, and photography will also be addressed.

**Style:** 50% Lecture, 10% Discussion, 40% Laboratory.

**Grading:** 25% class participation, 50% problem solving, 25% other evaluation. in-class exercises

DHA 1602 Interior Design Studio II

**A-F only, 4 credit(s); prereq [DHA pre-major], 1601 with grade of at least C+;

**Instructor:** Zollinger, Stephanie Watson

**Description:** Student may contact the instructor or department for information.

DHA 2101 Design and Visual Presentation

**A-F only, 3 credit(s); prereq Non-design major;

**Instructor:** Hokanson, Brad

**Description:** Design is important to us all, but not all students will become professional and proficient designers. Everyone should have some skill in design; the ability to visualize and present information, the ability to communicate visually, the capability to critique and understand design. For example, integrates basic design literacy into their high school curriculum; these skills are needed by all in a world that is increasingly design oriented. Non-College of Design students who wish to improve their visual and presentation skills may enroll in the course as an elective, as it will be open to the rest of the University. Approval is pending for this class to serve as part of the Design Minor of the College of Design. The course will focus on a series of be both real and digital design exercises. The course will involve the development of digital and printed materials for communication and presentation. Course activities will be designed to complete without extensive studio equipment or professional level software. Microsoft Office will be the main software program set for creating and displaying design work, and is supported in all University open labs. <html> <img src="http://134.84.167.27/HokansoninArgentina.jpg" > </html>

DHA 2196 Work Experience in DHA

**S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;

**Instructor:** LaBat, Karen Louise

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Ziebarth, Ann
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Bye, Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Hokanson, Brad
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Bye, Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Boyd-Brent, James W
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Hadjiyanni, Tasouilla
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Martin PhD, Caren Samter
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Williams, Gloria M
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent ;
Description: Student may contact the instructor or department for information.
DHA 2196 Work Experience in DHA  
S-N only, 1-4 credit(s); max credits 8; prereq Plan submitted/approved by [advisor, internship supervisor], written approval of supervisor, instr consent;  
Instructor: Wu,Juanjuan  
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA  
S-N only, 1-4 credit(s); max credits 8; prereq Plan submitted/approved by [advisor, internship supervisor], written approval of supervisor, instr consent;  
Instructor: Kim,Hye-Young  
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA  
S-N only, 1-4 credit(s); max credits 8; prereq Plan submitted/approved by [advisor, internship supervisor], written approval of supervisor, instr consent;  
Instructor: Dunne,Lucy Elizabeth  
Description: Student may contact the instructor or department for information.

DHA 2214 Softlines Analysis  
A-F only, 3 credit(s); prereq 1201, 2213;  
Instructor: Gahring,Sherri Ann  
Description: Student may contact the instructor or department for information.

DHA 2221 Clothing Design Studio I  
A-F only, 4 credit(s); prereq 1201, 1221, clothing design premajor;  
Instructor: STAFF  
Description: Introduction to theories and methods used to solve problems in designing clothing for a variety of user groups. Developing an understanding of the relationship of the 2-dimensional pattern shape to the 3-dimensional body. Introduction to basic flat pattern, draping and fitting principles. The objectives of the course are: To understand the basic relationship of the 2-dimensional plane to the 3-dimensional body in developing patterns; To understand and utilize flat pattern manipulation to vary pattern style while maintaining size in the design of clothing; To examine, evaluate, and utilize pattern development techniques as appropriate for selected clothing designs; To learn the basic process of apparel design ideation through the use of a variety of illustration techniques; To learn and implement the basic process of apparel pre-production form design concept through finished sample. This class is designed for pre-clothing design majors who have completed the necessary prerequisites: DHA 1201, 1311, 1311, 1312. The class is designed for studio learning opportunities with supporting lecture and demonstrations. Project work requires an average of 15 hours outside of class.  
Style: 25% Lecture. Studio  
Grading: 50% special projects, 50% problem solving.

DHA 2222 Clothing Design Studio II  
A-F only, 4 credit(s); prereq 2221 with a grade of at least C-, DHA major, pass portfolio review;  
Instructor: Carlson,Anna M  
Description: Student may contact the instructor or department for information.

DHA 2311 Drawing and Illustration  
A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or premajor];  
Instructor: Owens,John Lee  
Description: Student may contact the instructor or department for information.

DHA 2334 Computer Applications I: Digital Composition for Design  
A-F only, 3 credit(s); prereq DHA major or pre-major, 1311, 1312, 1315;  
Instructor: Chu, Sauman  
Description: This is an advanced computer design class that focuses on the integration of design knowledge with Macintosh computer applications. Students obtain experience using software to design illustrations and page layouts with the support of their understanding on design principles and strategies. Three programs are focused on: Adobe Illustrator, Adobe Photoshop, and InDesign. Experiences on using these software are required. Additionally, Macromedia Flash will also be taught. Emphasis of this class is placed on producing sophisticated and professional design work as well as broadening students' experience on applying software. A co-operative learning environment is encouraged.  
Style: 25% Lecture, 25% Discussion. Studio time  
Grading: 10% in-class presentation, 10% class participation, 80% other evaluation. Design projects

DHA 2334 Typographic Design  
A-F only, 3 credit(s); prereq DHA major, pass portfolio review;  
Instructor: STAFF  
Description: Typographic Design is an introduction to the art of visual communication: the visual realization of a most basic element of communication—the word. The history of typographic forms, principles of composition, and the expressive potential of type will be explored though reading, research, exercises, and design production. Sequential studies will follow the design process: problem-solving through exploration, experimentation, selection, critique, and refinement. Effectiveness of typographic design will be evaluated in terms of legibility, readability, and expression: the direct correlation to gestalt design principles will be evident. Assignments include textbook readings, research from additional sources, analysis and critique of found design, and, primarily, studio design production. Studio assignments will involve both handwork, to train the eye and hand; and digital typographic design and illustration using QuarkXpress and Illustrator. Class sessions will be held in both classrooms and Macintosh studios. This class is for Graphic Design majors who have passed portfolio review only.  
Style: 10% Lecture. studio; 30% critique  
Grading: 100% other evaluation. studio design projects including process participation

DHA 2351 Graphic Design I: Text and Image  
A-F only, 3 credit(s); prereq 2345, DHA major, pass portfolio review;  
Instructor: Clarke,Kelly J  
Description: Student may contact the instructor or department for information.

DHA 2385W Design and Factors of Human Perception  
A-F only, 4 credit(s); prereq DHA major, pass portfolio review; Meets CLE req of Writing Intensive;  
Instructor: Fraher,Robert Michael  
Description: Student may contact the instructor or department for information.
DHA 2402 Residential Technology  
A-F only, 3 credit(s);  
Instructor: Enz,Pamela Jean Richie  
Description: Student may contact the instructor or department for information.

DHA 2463 Housing and Community Development  
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;  
Instructor: Crisp,Jeffrey R  
Description: This course is an examination of the linkages between housing and community development. The process of residential neighborhood change and the impact of housing on neighborhood conditions will also be explored. The course considers theories of neighborhood change, trends in residential development, and ideas of community building. Private sector, community-based, and governmental efforts at neighborhood revitalization and their effectiveness will be studied. Related issues such as racial discrimination in housing, gentrification and the displacement of low-income residents will be surveyed. This course also incorporates a community-based learning component. Specific course goals include: 1. Develop an understanding of the linkages between housing and the broader community. 2. Develop an appreciation of the linkages between housing and quality of life. 3. Develop an awareness of the connections between housing and social justice.  
Style: 40% Lecture, 20% Discussion. Community based learning  
Grading: 20% final exam, 30% quizzes, 10% class participation, 40% other evaluation. Community based learning  
Exam Format: Essay

DHA 2604 Interior Design Studio IV  
A-F only, 4 credit(s); prereq [2603, 2612, 2621] with grade of at least C-, DHA major;  
Instructor: Saari,Cheri Marie  
Description: Student may contact the instructor or department for information.

DHA 2613 Lighting Design and Life Safety Issues  
A-F only, 4 credit(s); prereq [DHA major, pass portfolio review] or instr consent;  
Instructor: Ham,Tao Y  
Description: Student may contact the instructor or department for information.

DHA 3170 Special Topics in Design, Housing, and Apparel  
A-F only, 3 credit(s), max credits 32, 8 repeats allowed;  
Instructor: Paron-Wildes,Anita Jean  
Description: Student may contact the instructor or department for information.

DHA 3170 Special Topics in Design, Housing, and Apparel  
A-F only, 3 credit(s), max credits 32, 8 repeats allowed;  
Instructor: Broden,Lonnie M  
Description: Student may contact the instructor or department for information.

DHA 3196 Field Study: National or International  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed;  
prereq instr consent ;  
Instructor: Johnson PhD,Kim KP  
Description: Student may contact the instructor or department for information.

DHA 3201 Strategic Career Planning  
A-F only, 1 credit(s); prereq [Jr or sr or at least 60 cr], retail merchandising major;  
Instructor: Fredrickson,Heather Nagle  
Description: Strategic Career Planning for students in Retail Merchandising - Discover your strengths, learn what career opportunities fit with your major and develop top-notch skills and materials to land you an ideal internship or job! The focus of this course is to increase your awareness, knowledge and skills associated with the career identification and internship/job search process. Through this course you will gain an understanding of the relationship of interests, skills, personality, and work values to career choice. Each topic will convey information that will be applicable for a lifetime of career development and employment change. Learning job search strategies and developing application skills are intended to increase your level of self-confidence in this process. You will:  
- examine your skills, interests and individual strengths; learn about retail-related careers and companies; produce a resume and sample cover letter that best represent your experience and career interests to potential employers; learn networking and internship/job search techniques, including identifying employment listings and conducting employer research; learn how to research and prepare for salary negotiation; prepare for and practice an interview; and develop an action plan and set career related goals. This is an interactive course, which also includes individual practice/mock interviews with Career Professionals and a Career Panel.  
Style: 55% Lecture, 10% Discussion. Class Activities  
Grading: 50% reports/papers, 40% special projects, 10% class participation.

DHA 3224 Clothing Design Studio IV  
A-F only, 4 credit(s); prereq [2213, 3223] with grade of at least C-, DHA major;  
Instructor: LaBat,Karen Louise  
Description: Use of the design process in designing clothing for special needs. Conduct and apply research in design of specialized clothing for use in situations requiring thermal protection, impact protection, accommodation for mobility, and to facilitate and/or increase body function. Course projects are often conducted in collaboration with an industry partner. Text is "Clothing: The Portable Environment", by Watkins. Prereq is Clothing Studio III  
Style: 20% Lecture, 10% Discussion. Studio  
Grading: 15% mid exam, 15% final exam, 10% problem solving, 60% other evaluation. design projects  
Exam Format: Essay

DHA 3224 Clothing Design Studio IV  
A-F only, 4 credit(s); prereq [2213, 3223] with grade of at least C-, DHA major;  
Instructor: Dunne,Lucy Elizabeth  
Description: Use of the design process in designing clothing for special needs. Conduct and apply research in design of specialized clothing for use in situations requiring thermal
protection, impact protection, accommodation for mobility, and to facilitate and/or increase body function. Course projects are often conducted in collaboration with an industry partner. Text is "Clothing: The Portable Environment", by Watkins. Prereq is Clothing Studio III.

**Style:** 20% Lecture, 10% Discussion. **Studio**

**Grading:** 15% mid exam, 15% final exam, 10% problem solving, 60% other evaluation. design projects

**Exam Format:** Essay

**DHA 3225 Clothing Design Research**

A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3224;

**Instructor:** Bye, Elizabeth Kersch

**Description:** Student may contact the instructor or department for information.

**DHA 3243 Visual Merchandising**

A-F only, 3 credit(s); prereq 1101, 1201, [DHA major or minor or dept consent];

**Instructor:** Wu, Juanjuan

**Description:** Student may contact the instructor or department for information.

**DHA 3243 Visual Merchandising**

A-F only, 3 credit(s); prereq 1101, 1201, [DHA major or minor or dept consent];

**Instructor:** Kang, Mineeong

**Description:** Student may contact the instructor or department for information.

**DHA 3245 Multichannel Retailing**

A-F only, 3 credit(s); prereq 1201;

**Instructor:** Kim, Jae Eun

**Description:** Student may contact the instructor or department for information.

**DHA 3312 Color and Form in Surface Design**

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or pre-major];

**Instructor:** Carlson, Anna M

**Description:** This course will explore use of color in surface design with particular emphasis on hands on screen printing (screenprinting for designers) on paper. There will also be a monoprinting on paper and fabric, and a surface design on fabric component (dyeing, screenprinting).

**Style:** 5% Lecture, 20% Discussion, 60% Laboratory, 5% Student Presentation, 5% Demonstration, 5% Field Trips. visual assignments both in- and out of class work

**Grading:** 5% mid exam, 10% class participation, 85% other evaluation. visual assignments and in-class work

**DHA 3312 Color and Form in Surface Design**

A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or pre-major];

**Instructor:** Boyd-Brent, James W

**Description:** This course will explore use of color in surface design with particular emphasis on hands on screen printing (screenprinting for designers) on paper. There will also be a monoprinting on paper and fabric, and a surface design on fabric component (dyeing, screenprinting).

**Style:** 5% Lecture, 20% Discussion, 60% Laboratory, 5% Student Presentation, 5% Demonstration, 5% Field Trips. visual assignments both in- and out of class work

**Grading:** 5% mid exam, 10% class participation, 85% other evaluation. visual assignments and in-class work

**DHA 3352 Graphic Design II: Identity and Symbols**

A-F only, 3 credit(s); prereq 2351, DHA major;

**Instructor:** STAFF

**Description:** This course will build on previously learned graphic design principles including a continued investigation of typography and its application. Students will explore the representation of abstract ideas in the form of symbols for the purpose of building identity. The class will focus on the development of visual identity through a systems approach to design with application to various printed collateral. This course will prepare students to design a symbol, a logotype, stationary system and collateral products, keeping the identity consistent and intact throughout the process. Students will apply gestalt design principles, figure-ground relationships, and contrast within the structure of the grid to aid organization from piece to piece and within the whole.

**Style:** 10% Lecture, 10% Discussion. studio time

**Grading:** 80% special projects, 10% class participation, 30% problem solving.

**DHA 3353 Graphic Design III: Packaging and Display**

A-F only, 3 credit(s); prereq 3352 or concurrent registration is required (or allowed) in 3352, DHA major;

**Instructor:** Gardner, Carina Lund

**Description:** Student may contact the instructor or department for information.

**DHA 3353 Graphic Design III: Packaging and Display**

A-F only, 3 credit(s); prereq 3352 or concurrent registration is required (or allowed) in 3352, DHA major;

**Instructor:** Stein, Sarah Lynne

**Description:** Student may contact the instructor or department for information.

**DHA 3482 Our Home, Our Environment**

A-F only, 3 credit(s); prereq 2402 or instr consent ; Credit will not be granted if credit has been received for: ESPM 3601;

**Instructor:** Dolata, Rosemary Dawn

**Description:** Student may contact the instructor or department for information.

**DHA 3606 Interior Design Studio VI**

A-F only, 4 credit(s); prereq 3605 with grade of at least C-, DHA major;

**Instructor:** Vohs, Elizabeth Susan

**Description:** Student may contact the instructor or department for information.

**DHA 4121 History of Costume**

A-F only, 4 credit(s); prereq Jr or sr or grad student;

**Instructor:** Lutz PhD, Hazel A

**Description:** This survey of the history of dress in the European cultural world--including the US, UK, Europe and elite in the areas of the world colonized by the UK, USA or Europe--begins with a brief study of 1700s dress to understand the revolutionary nature of the dress that followed. We will study the 19th & 20th century dress in detail. The focus is on: (a) recognition of what decade any item of dress comes from, (b) how the design of dress in any era is informed by developments in art, technology, society, politics, science & religion, (c) how to do your own costume history research & why that's important, & (d) critical evaluation of sources of costume history information. The material covered goes beyond garments, accessories & hair/beard styles to include body ideals and clothing production & retail processes. We will view many dress artifacts from the collection of the Goldstein Museum of Design and 20th century film clips. This class is useful for students of: clothing design, apparel merchandising, theater, film, art, art history, fashion journalism, social history, psychology and gender studies.

**Style:** 15% Lecture, 15% Film/Video, 15% Discussion, 5% Small Group Activities, 20% Student Presentation, 20% Demonstration, 5% Field Trips, 5% Guest Speakers.

**Grading:** 12% mid exam, 12% final exam, 20% reports/papers, 10% special projects, 6% quizzes, 20% in-class presentation, 10% class participation, 10% other evaluation. Other evaluation refers to a set of 5.2-page assignments that are 90% visual. Only the citation information on the visuals need be written.
DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: LaBat, Karen Louise

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: Ziebarth, Ann

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: Gahring, Sherri Ann

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: Yust, Becky L

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: Angell, William J

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: Bye, Elizabeth Kersch

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent.
Description: Student may contact the instructor or department for information.
Instructor: Waldron, Carol C

Exam Format: WebVista based exams and quizzes.

DHA 4162 History of Interiors and Furnishings: 1750 to Present
A-F only, 4 credit(s); prereq 4161 or instr consent; Meets CLE req of International Perspect Theme;
Instructor: Hadjiyanni, Tasoulla
Description: This course explores the evolution in the design and meaning of furniture and domestic interiors in Europe and America between 1750 and the present day. Fundamental to the course's approach is the uncovering of the artistic, historical, social, environmental, economic, political, cultural, religious, and technological forces behind these designs. Armed with an understanding of the world's interconnectedness and the multiplicity of factors that impact the development of furniture and interiors, students are challenged to consider how they can be responsible designers and create designs that respond to current forces and social concerns.
Style: 80% Lecture, presentations
Grading: 60% mid exam, 15% final exam, 10% reports/papers, 15% special projects.
Exam Format: identification of images

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent;
Instructor: Bruin,Marilyn J
Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent;
Instructor: Wu,Juanjuan
Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent;
Instructor: Jasper,Daniel
Description: Student may contact the instructor or department for information.

DHA 4193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 4; prereq Undergrad, instr consent;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

DHA 4196 Internship in DHA
S-N only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq Completion of at least one-half of professional sequence, plan submitted and approved in advance by adviser and internship supervisor, written consent of faculty supervisor, instr. consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DHA 4212W Dress, Society, and Culture
A-F only, 3 credit(s); prereq [[1101, jr] or grad student], [DHA major or minor or dept consent ]; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Johnson PhD,Kim KP
Description: Student may contact the instructor or department for information.

DHA 4215 Product Development: Softlines
A-F only, 4 credit(s); prereq 2213 or clothing design major or retail merchandising major or instr consent credit will not be granted if credit received for: 5215;
Instructor: Dunne,Lucy Elizabeth
Description: Student may contact the instructor or department for information.

DHA 4217 International Developments in Textiles and Apparel
A-F only, 3 credit(s); prereq [1201, ApEc 1102, [jr or sr or grad student], [DHA major or minor or dept consent ]; Meets CLE req of International Perspect Theme;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

DHA 4226 Clothing Design Studio VI
A-F only, 4 credit(s); prereq 4225 with grade of at least C-,

DHA 4247 Advanced Buying and Sourcing
A-F only, 3 credit(s); prereq 3242, [DHA major or minor or dept consent ];
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

DHA 4249 Woven, Knit, and Non-Woven Fiber Design Workshop
A-F only, 4 credit(s), max credits 8;
Instructor: Deppe,Margaret Anne
Description: Studio experience in development and production of woven, knit, and non-woven fiber projects with application to apparel and interior design. Students will explore multiple design and construction methods and complete several projects, including a portfolio of technique samples for future reference.
Style: 20% Lecture. Studio
Grading: 100% special projects.

DHA 4340 Woven, Knit, and Non-Woven Fiber Design Workshop
A-F only, 4 credit(s), max credits 8;
Instructor: Deppe,Margaret Anne
Description: Studio experience in development and production of woven, knit, and non-woven fiber projects with application to apparel and interior design. Students will explore multiple design and construction methods and complete several projects, including a portfolio of technique samples for future reference.
Style: 20% Lecture. studio
Grading: 100% special projects.

DHA 4345 Advanced Typographic Design
A-F only, 4 credit(s); prereq [2351, DHA major] or DHA grad student or instr consent ;
Instructor: Waldron,Carol C
Description: Advanced Typographic Design is the continued -- and deeper -- exploration of the expressive visual communication through letterforms and words. Both the fundamental legibility of the invisible art and overt expression through type will be addressed. Students will apply fundamentals of design and typography to simple and complex communication objectives, exploring the expressive potential of varied

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DHA 4351 Design Process: Photography  
A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or grad or pre-major];  
**Instructor:** Martin, Peter Lynn  
**Description:** This course focuses on the relationship between material design media and the design problem and its most effective solution. Students gain technical skills to take, develop, process, scan, and digitally print photographs. Students also develop design skills by exploring the expressive potential of photographic images, and address issues surrounding manipulation of photographs for design and personal expression. Projects include both image composition and research and analysis. This class is intended primarily for DHA majors who have completed design foundations coursework; students from other majors are welcome as space allows.  
**Style:** 10% Discussion. studio design production and critique  
**Grading:** 10% reports/papers, 90% other evaluation. design projects

DHA 4354 Graphic Design IV: Integrative Campaign  
A-F only, 4 credit(s); prereq 3353, DHA major;  
**Instructor:** STAFF  
**Description:** This course will focus on a multi-faceted designed communication campaign involving substantial investigation and conceptual application. The project undertaken will be, in large part, developed by the individual student as a result of his/her research and specific interests. The multi-faceted character of the project will support a unified theme/concept/idea for an identified client that is aimed effectively at a specific market or interest group. The completed project will demonstrate the student's ability to maximally apply acquired knowledge, skill and understanding of design, including a high degree of thought and sophisticated creativity. The course will build on typographic, compositional and imaging skills that students have developed in earlier classes.  
**Style:** 30% Lecture, 30% Discussion. studio time  
**Grading:** 25% class participation, 75% other evaluation. design projects

DHA 4355 Graphic Design Portfolio  
S-N only, 3 credit(s); prereq [4354 or 4365], DHA major;  
**Instructor:** Pickman, Gregory Hunter  
**Description:** Student may contact the instructor or department for information.

DHA 4365W Graphic Design Senior Seminar  
A-F only, 3 credit(s); prereq 4354, DHA major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;  
**Instructor:** Huff, Richelle Jayne  
**Description:** Student may contact the instructor or department for information.

DHA 4461 Housing Development and Management  
A-F only, 3 credit(s); prereq [2401, 2402, 2463] or grad student or instr consent ;  
**Instructor:** Yust, Becky L  
**Description:** This course focuses on development and management issues in multifamily housing. The subjects of study include: multifamily housing development planning and financing (particularly public financing), management approaches, management issues with specific residential populations such as the elderly and families with children, and affordable housing issues including public housing, cooperatives, manufactured or mobile homes, and community land trusts.  
**Style:** 40% Lecture, 2% Film/Video, 10% Discussion, 5% Small Group Activities, 13% Student Presentation, 30% Guest Speakers.  
**Grading:** 10% mid exam, 10% final exam, 40% reports/papers, 24% special projects, 16% reflection paper.  
**Exam Format:** Exams are essay exams taken outside of class time on the Web through the course WebVista site.

DHA 4461 Housing Development and Management  
A-F only, 3 credit(s); prereq [2401, 2402, 2463] or grad student or instr consent ;  
**Instructor:** Bruin, Marilyn J  
**Description:** This course focuses on development and management issues in multifamily housing. The subjects of study include: multifamily housing development planning and financing (particularly public financing), management approaches, management issues with specific residential populations such as the elderly and families with children, and affordable housing issues including public housing, cooperatives, manufactured or mobile homes, and community land trusts.  
**Style:** 40% Lecture, 2% Film/Video, 10% Discussion, 5% Small Group Activities, 13% Student Presentation, 30% Guest Speakers.  
**Grading:** 10% mid exam, 10% final exam, 40% reports/papers, 24% special projects, 16% reflection paper.  
**Exam Format:** Exams are essay exams taken outside of class time on the Web through the course WebVista site.

DHA 4608 Interior Design Thesis  
A-F only, 4 credit(s); prereq 4615W with grade of at least C-, DHA major; Meets CLE req of Writing Intensive;  
**Instructor:** Zollinger, Stephanie Watson  
**Description:** Student may contact the instructor or department for information.

DHA 5170 Special Topics in Design, Housing, and Apparel  
A-F only, 3 credit(s), max credits 8, 8 repeats allowed;  
**Instructor:** Williams, Gloria M  
**Description:** Student may contact the instructor or department for information.

DHA 5170 Special Topics in Design, Housing, and Apparel  
A-F only, 3 credit(s), max credits 8, 8 repeats allowed;  
**Instructor:** Broden, Lonnie M  
**Description:** Student may contact the instructor or department for information.

DHA 5193 Directed Study in Design, Housing, and Apparel  
A-F only, 4 credit(s); prereq [2401, 2402, 2463] or grad student or instr consent ;  
**Instructor:** Hokanson, Brad  
**Description:** Directed study in design, housing and apparel. The topics, course content and readings are developed under the guidance of the supervising faculty member. Typically reserved for graduate students.  
**Style:** Working with supervising faculty  
**Grading:** 100% reports/papers. Or may be related to a project

DHA 5341 Interactive Design  
A-F only, 3 credit(s); prereq [4334], [DHA major or grad student], pass portfolio review) or instr consent ;  
**Instructor:** Hokanson, Brad  
**Description:** Objectives: In this course, students will: develop a greater understanding of the use of interactive media; create Internet sites that utilize the work of the class; improve file management and theoretical understanding of computers; develop interface design skills; develop a high level of skill in the area of coding and Flash animation; use a diversity of approaches and tools in the solution of problems; continue to develop skill in pre-planning of interactive presentations; evaluate work by themselves and by peers; have their work...
evaluated by their others; continue integration and application of the principles of design into their work in computer media. Style: 10% Lecture, 15% Discussion, 70% Laboratory. Field trips Grading: 22% in-class presentation, 23% class participation, 41% laboratory evaluation, 14% problem solving.

DHA 5342 Interactive Design 2: Interface Design A-F only, 3 credit(s); prerequisite [[4384] or 5341], [DHA major or DHA grad student] or instructor consent; Instructor: Daigle, Gregory Clark
Description: 2% Discussion, 3% Student Presentation, 5% Guest Speakers, 90% Web Based.

DHA 5388 Design Planning, Analysis, and Evaluation A-F only, 3 credit(s); prerequisite [4354, DHA major] or grad or instructor consent; Instructor: Martinson, Barbara Elizabeth
Description: Experience in design planning, research, and development. Emphasis on preliminary research, including theoretical, applied and legal aspects of design projects and processes. A variety of planning and developmental models will be used. Design prototyping, testing and analysis is included. This course is intended for graduate students.
Style: 30% Lecture, 30% Discussion, 40% Laboratory.
Grading: 30% reports/papers, 20% special projects, 30% class participation, 20% laboratory evaluation.

DHA 5463 Housing Policy A-F only, 3 credit(s); prerequisite 2401, 2463 or instructor consent; Credit will not be granted if credit has been received for: PA 5261.
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 5469 Understanding Housing: Assessment and Analysis A-F only, 3 credit(s); prerequisite [2401, 2463] or instructor consent; Instructor: Deegan, Jessica Ann
Description: This course is designed as an introduction to housing based research and analysis with a focus on geographic information systems and mapping. Housing research lends itself well to mapping and geographic analysis because of the fixed location of housing stock and the rich information that we can gather about the structure itself, the neighborhood or city in which it resides, and the inhabitants within. The course requires extensive use of computers in a weekly lab session. GIS analysis will be taught from the basic principals through data collection and map production. While no previous GIS experience is necessary, a familiarity with Windows and standard office software is highly recommended and will help you succeed in the course. The are three main goals in this course: 1) To develop a basic understanding of how to use GIS in the analysis of spatial data, especially that which pertains to housing; 2) To develop the ability to design maps that effectively communicate the information that is presented; 3) To understand the characteristics and availability of a variety of data sources, both housing specific and spatial data, and to utilize these data in the analysis of housing issues. This course is targeted towards upper level undergraduates and graduate students in many disciplines.
Style: 50% Lecture, 50% Laboratory.
Grading: 40% reports/papers, 30% quizzes, 30% laboratory evaluation.

DHA 5469 Understanding Housing: Assessment and Analysis A-F only, 3 credit(s); prerequisite [2401, 2463] or instructor consent; Instructor: Crump, Jeffrey R
Description: This course is designed as an introduction to housing based research and analysis with a focus on geographic information systems and mapping. Housing research lends itself well to mapping and geographic analysis because of the fixed location of housing stock and the rich information that we can gather about the structure itself, the neighborhood or city in which it resides, and the inhabitants within. The course requires extensive use of computers in a weekly lab session. GIS analysis will be taught from the basic principals through data collection and map production. While no previous GIS experience is necessary, a familiarity with Windows and standard office software is highly recommended and will help you succeed in the course. The are three main goals in this course: 1) To develop a basic understanding of how to use GIS in the analysis of spatial data, especially that which pertains to housing; 2) To develop the ability to design maps that effectively communicate the information that is presented; 3) To understand the characteristics and availability of a variety of data sources, both housing specific and spatial data, and to utilize these data in the analysis of housing issues. This course is targeted towards upper level undergraduates and graduate students in many disciplines.
Style: 50% Lecture, 50% Laboratory.
Grading: 40% reports/papers, 30% quizzes, 30% laboratory evaluation.

DHA 5484 Rural Housing Issues A-F only, 3 credit(s); prerequisite [2401, 2463] or instructor consent; Instructor: Ziebarth, Ann
Description: Housing issues for nonmetropolitan places, small towns, and rural areas are explored in this course. Housing needs and policy implications for targeted rural populations, such as American Indians, immigrants, migrant farm workers, and those living in areas of persistent poverty, are studied. Impacts of various rural economic development strategies and public policies on housing availability, adequacy, and affordability will be discussed. Student will increase their awareness of the ways housing policies in rural places are similar and different than in urban settings. They will gain an appreciation of the unique challenges facing rural communities in addressing the housing needs of current and potential residents. Students will also develop an understanding of the public policies directed at rural housing. The course will involve a variety of learning strategies including lecture, discussion, presentations, video/DVD, and problem solving activities.
Style: 45% Lecture, 5% Film/Video, 25% Discussion, 10% Small Group Activities, 15% Student Presentation.
Grading: 33% mid exam, 33% reports/papers, 17% reflection paper, and 17% in-class presentation. Class attendance and participation is expected in the course. There are two in-class exams.
Exam Format: Essay and short answer.

DHA 8112 Design Theory and Criticism A-F only, 3 credit(s); Instructor: Guerin, Denise A
Description: This course is intended for any graduate student in the design fields, e.g., interior design, graphic design, clothing design, architecture, landscape architecture, etc. We study the various theories that have been developed about the relationship between the designed environment and human behavior. A significant amount of reading is completed about different theories and their application in research studies and design practice. Students discuss the readings and questions presented by class members and the instructor. An interdisciplinary approach is possible because students from many different design professions are enrolled in the class. There are generally two short papers in which students review certain theories. A third paper is more extensive in which students explore one theory of their choice in terms of its applicability to design research or design practice.
Style: 15% Lecture, 55% Discussion, 15% Student Presentation, 15% Guest Speakers.

DHA 6114 Design Studio A-F only, 4 credit(s); prerequisite instructor consent; Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 8166 Material Culture and Design A-F only, 3 credit(s); prerequisite DHA grad student or instructor consent; Instructor: DeLong, Marilyn R
Description: This is an upper level urban design studio course for DHA graduate students. The course is designed to provide students with the ability to develop design solutions for urban and regional issues. Students will be required to develop a comprehensive understanding of the physical, economic, and social context of the design site, and to develop design solutions that are responsive to the needs of the community. The course will include lectures, small group discussions, and studio assignments. Students will be required to present their work to the class and to the community. The course will also include guest lectures from professionals in the field. The course will be graded on the basis of studio assignments, presentations, and participation in class discussions. Students will be evaluated on their ability to develop and present design solutions that are responsive to the needs of the community.
Description: Student may contact the instructor or department for information.

DHA 8170 Topics in Design, Housing, and Apparel: Space & Behavior: POE Applied to Sr Hsg
A-F only, 3 credit(s), max credits 6, 6 repeats allowed;
prereq Varies with topic;
Instructor: Cutler,Lois Jean
Description: Student may contact the instructor or department for information.

DHA 8181 Ethics and Research
S-N only, 1 credit(s); prereq Grad student;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Ziebarth,Ann
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Gahring,Sherri Ann
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Yust,Becky L
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Angell,William J
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent ;
Instructor: Bye,Elizabeth Kersch
Description: Student may contact the instructor or department for information.
DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Wu, Juanjuan
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

DHA 8192 Readings in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Kim, Hye-Young
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: LaBat, Karen Louise
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Ziebarth, Ann
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Hokanson, Brad
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Martin PhD, Caren Samter
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Williams, Gloria M
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.
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DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: DeLong,Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Zollinger,Stephanie Watson
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: McCarthy,Steven J
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Crump,Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Wu,Juanjuan
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Jasper,Daniel
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: Dunne,Lucy Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department for information.

S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Ziebarth,Ann
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Gahring,Sherri Ann
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Yust,Becky L
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Angell,William J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Bye,Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Chu,sauman
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Boyd-Brent,James W
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Hadjiyanni,Tasoulla
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Martin PhD, Caren Samter
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Williams, Gloria M
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Wu, Juanjuan
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

DHA 8263 Writings on Dress: Contemporary Themes
A-F only, 3 credit(s); prereq 8101 or instr consent;
Instructor: Williams, Gloria M
Description: Student may contact the instructor or department for information.

DHA 8362 The Nature of Representation in Visual Communication
A-F only, 3 credit(s); prereq Grad DHA major or instr consent;
Instructor: Boyd-Brent, James W
Description: Student may contact the instructor or department for information.

DHA 8467 Theoretical Perspectives in Housing Studies
A-F only, 3 credit(s); prereq 5467 or instr consent;
Instructor: Ziebarth, Ann
Description: This course focuses on the investigation and evaluation of theories applied to the study of housing. Links between theory, research questions and methodological approaches are examined. Studies have the opportunity to explore a variety of theories that apply directly to their own research projects.
Style: 25% Lecture, 50% Discussion, 25% Student Presentation.
Grading: 50% reports/papers, 20% special projects, 20% written homework, 10% class participation.
Exam Format: There are no exams in this class.

DHA 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent;
Instructor: Hokanson, Brad
Description: Student may contact the instructor or department for information.

DHA 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

DHA 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

DHA 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12; prereq Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent;
Instructor: Boyd-Brent, James W
Description: Student may contact the instructor or department for information.
DTCH 1002 Beginning Dutch
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: DTCH 4002;
Instructor: Oosterhoff, Jenneke A
Description: Welkom terug in Nederlands 1002. This is the second course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Dutch. Note: This is second semester beginning Dutch, so it is not a total beginner's course. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main book is the text book package of ?Code? volume 1. The book is accompanied by a cd-rom which is meant for independent work by the students at home. Class time will be devoted to mostly speaking and listening skills. Supplementary materials about life and culture in Holland (short authentic and literary texts, songs, video, and pictures) will be an integral part of the course. The first-year courses encourage extensive student interaction, partner activities, and group work. A selection of new topics to be introduced includes: health, comparing school systems, the arts, finding a job, friends and family etc. Students should expect an average of 2 hours of outside preparation for each class session. See the description for Ditch 4002 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Style: 20% Lecture. Interactive exercises (inc. lab)
Grading: 10% mid exam, 10% final exam, 40% quizzes, 20% class participation, 20% other evaluation. written homework
Exam Format: Quizzes and essays

DTCH 1004 Intermediate Dutch
5 credit(s); prereq 1003; Credit will not be granted if credit has been received for: DTCH 4004;
Instructor: Oosterhoff, Jenneke A
Description: This course continues the presentation of language skills (speaking, writing, listening and reading) begun in Ditch 1003 with special focus on the extension of speaking and writing skills (in preparation for the LPE and OPI). The main course book used in this class is the textbook and cd-rom package of Code, volume 2. This book is accompanied by audio materials which the instructor will use in class and you are expected to use at home. Class time will be devoted mostly to speaking and pre-writing activities. You will write 4 formal essays, each of which will be followed by a rewrite. In addition, you will read a Dutch novel and a number of short newspaper articles. The course includes a variety of supplementary materials on Dutch life and culture: video sections from Dutch TV, information from Dutch websites, Dutch film, etc. You should expect an average of three hours of outside preparation per class session. See the description for Ditch 4004 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Style: 20% Lecture. pre-writing and interactive exercises
Grading: 10% mid exam, 10% final exam, 30% quizzes, 20% class participation, 30% other evaluation. written assignments
Exam Format: quizzes, essays

DTCH 3610 Dutch Literature in Translation: Gender in Dutch Literature and Film
3 credit(s), max credits 9, 3 repeats allowed; prereq No knowledge of Dutch required;
Instructor: Oosterhoff, Jenneke A
Description: This exciting course, intended for students with an interest in Dutch culture and women's lives, will introduce the students to a number of well known Dutch writers and filmmakers. Texts and films have been selected by the instructor on the basis of their unique treatment of important (and sometimes controversial) issues in today's society, both in the Netherlands and, by comparison, the United States. A selection of topic areas to be discussed includes: female friendship, sisterhood, (same sex) marriage, work, motherhood, women's roles in wartime Holland, sexuality, and more. Invited speakers in the field of media studies (prof. Jaap Kooijman from the University of Amsterdam) and mass communication (professor Marco Iizer from the University of Minnesota) will contribute to the cultural content of this course. Movies include works by renowned filmmakers such as Marleen Gorris, Eddy Terstall, Paula van der Oest and Dorothee van den Bergh. For those interested in a different perspective, this course is a must.
Style: 40% Film/Video, 40% Discussion, 10% Student presentation, 10% Guest Speakers.
Grading: 50% reports/papers, 10% journal, 10% in-class presentation, 30% class participation.

DTCH 3993 Directed Studies
1-5 credit(s), max credits 12, 12 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

DTCH 4002 Beginning Dutch
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DTCH 1002;
Instructor: Oosterhoff, Jenneke A
Description: This course continues the presentation of language skills (speaking, writing, reading, and listening) begun in Ditch 1003 with special focus on the extension of speaking and writing skills (in preparation for the LPE and OPI). The main course book used in this class is the textbook and cd-rom package of Code, volume 2. This book is accompanied by audio materials which the instructor will use in class and you are expected to use at home. Class time will be devoted mostly to speaking and pre-writing activities. You will write 4 formal essays, each of which will be followed by a rewrite. In addition, you will read a Dutch novel and a number of short newspaper articles. The course includes a variety of supplementary materials on Dutch life and culture: video sections from Dutch TV, information from Dutch websites, Dutch film, etc. You should expect an average of three hours of outside preparation per class session. See the description for Ditch 4004 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Description: Welkom terug in Nederlands 4002. This is the second course in the first-year language instruction sequence (4001-2), designed to develop a basic communicative proficiency in Dutch. Note: Second semester beginning Dutch, so it is not a total beginner's course. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main book is the text book package of "?Code?" volume 1. The book is accompanied by a cd-rom which is meant for independent work by the students at home. Class time will be devoted to mostly speaking and listening skills. Supplementary materials about life and culture in Holland (short authentic and literary texts, songs, video, and pictures) will be an integral part of the course. The first-year courses encourage extensive student interaction, partner activities, and group work. A selection of new topics to be introduced includes: health, comparing school systems, the arts, finding a job, friends and family etc. Students should expect an average of 2 hours of outside preparation for each class session.

Style: 20% Lecture. interactive exercises (incl lab)

Grading: 10% mid exam, 10% final exam, 40% quizzes, 20% class participation, 20% other evaluation. written homework

Exam Format: Quizzes and essays

DTCH 4004 Intermediate Dutch
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DTCH 1004;
Instructor: Oosterhoff, Jenneke A
Description: This course continues the presentation of language skills (speaking, writing, listening and reading) begun in DTCH 4003 with special focus on the extension of speaking and writing skills (in preparation for the LPE and OPI). The main book for this course is the textbook and cd-rom package of Code, volume 2. This book is accompanied by audio materials which the instructor will use in class and you are expected to use at home. Class time will be devoted mostly to speaking and pre-writing activities. You will write 4 formal essays, each of which will be followed by a rewrite. In addition, you will read a Dutch novel and a number of short newspaper articles. The course includes a variety of supplementary materials on Dutch life and culture: video sections from Dutch TV, information from Dutch websites, Dutch film, etc. You should expect an average of three hours of outside preparation per class session.

Style: 20% Lecture. pre-writing and interactive exercises

Grading: 10% mid exam, 10% final exam, 30% quizzes, 20% class participation, 30% other evaluation. written assignments

Exam Format: quizzes, essays

DTCH 5993 Directed Studies
1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

East Asian Studies
214 Social Sciences Tower

EAS 3013 Introduction to East Asian Art
3 credit(s); Credit will not be granted if credit has been received for: ARTH 3013;
Instructor: Poor, Robert John
Description: This course will examine a representative selection of the art produced in China, Korea, and Japan from the Neolithic era down to Modern times. Art of every type and style, such as ancient jades and ritual bronze vessels, Buddhist sculpture and temple architecture, landscape paintings and gardens, and popular paintings and prints is included. We will employ archaeological and art historical techniques to situate these objects in their cultural setting while underlining their character as unique works of art. This course will be web enhanced and a teaching assistant will be available to assist you in the preparation of a short take-home museum assignment. This course is intended for undergraduates. No previous courses in art history are required.

Style: 80% Lecture, 20% Discussion.

Grading: 33% mid exam, 33% final exam, 33% reports/papers.

Exam Format: essay

EAS 3462 Asia in the Age of Empires, 1600-1850: Everyday Life and Contacts in Early Modern Asia
3-4 credit(s), max credits 4, 1 repeat allowed; Credit will not be granted if credit has been received for: HIST 3462; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Issett, Christopher Mills
Description: This course is designed to introduce the main themes of East Asian history since 1500, focusing primarily on the histories of China, Japan, Korea and Vietnam. The course examines long-term changes, trends, and continuities in society, economy, politics and culture. The course also looks at the connections within Asia and between Asia and the rest of world over this period. Class time will be devoted mostly to lectures, but will also include time for questions, discussion, and film.

Style: 70% Lecture, 20% Discussion.

Grading: 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.

Exam Format: Written exam/blue book/essay and identifications

EAS 3465W China in the Ming and Qing Dynasties
3 credit(s); Credit will not be granted if credit has been received for: HIST 3465W; Meets CLE req of Writing Intensive;
Instructor: Waltner, Ann Beth
Description: This course will look at the social history of the Ming (1368-1644) and Qing (1644-1911) dynasties. We will examine family organization, social life, religion, economic developments and China's place in the world during this period. The class will be conducted as a mixture of lecture and discussion. We will be attentive to the question of how we know what we know about this period in Chinese history, paying attention to both textual and material sources. Readings will include primary texts (including fiction) as well as engaging works by scholars. Works we will read will include Timothy Brook, The Confusions of Pleasure: Commerce and Culture in Ming China; Jonathan Spence, The Return to Dragon Mountain: Memories of a Late Ming Man; Jonathan Spence, The Death of Woman Wang; and Susan Mann, The Talented Daughters of the Zhang Family. There will be no examinations. Students will write several short reaction papers and do one longer collaborative writing assignment. We will take several field trips (to the Weisman Museum, the Minneapolis Institute of Arts, and so on). For further information, contact me at waltn001@umn.edu.

EAS 3940 Topics in Asian History: History of Chinese Cities and Urban Life
3-4 credit(s), max credits 4, 1 repeat allowed; prereq Jr or sr or instr consent ;
Instructor: Wang, Liping
Description: Student may contact the instructor or department for information.

Ecology, Evolution, and Behavior
100 Ecology Building

EEB 3001 Ecology and Society
A-F only, 3 credit(s); prereq Jr or sr recommended; biological sciences students may not apply cr toward major; Credit will not be granted if credit has been received for: BIOL 3467; Meets CLE req of Environment Theme;
Instructor: Calcote, Randy

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Schedule.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

**EEB 3001 Ecology and Society**
A-F only, 3 credit(s); prereq [Jr or sr] recommended; biological sciences students may not apply cr toward major;
Credit will not be granted if credit has been received for: BIOL 3407; Meets CLE req of Environment Theme;
Instructor: Vaught,Philip Claude-Dziuk
Description: Student may contact the instructor or department for information.

**EEB 4068 Plant Physiological Ecology**
OPT No Aud, 3 credit(s); prereq BIOL 2022 or BIOL 3002 or BIOL 3407 or BIOL 3408W or instr consent ;
Instructor: Cavender-Bares,Jeannine Marie
Description: Student may contact the instructor or department for information.

**EEB 4134 Introduction to Ornithology**
4 credit(s); prereq Biol 1001 or Biol 2012; 
Instructor: STAFF
Description: Student may contact the instructor or department for information.

**EEB 4329 Primate Ecology and Social Behavior**
A-F only, 3 credit(s); prereq BIOL 1009 or BIOL 2002 or BIOL 3411 or ANTH 1001 or instr consent ;
Instructor: Pusey,Anne Elizabe
Description: An introduction to primate ecology and social behavior for upper level undergraduates and graduate students with a good background knowledge in evolutionary biology. Primates are used as a model system to explore basic questions in animal and human behavior including factors influencing sociality and group composition, mating systems, the prevalence of altruistic, cooperative and aggressive behavior, the strength of social bonds in different species, and the evolution of intelligence and culture. Style: 63% Lecture, 10% Film/Video, 20% Discussion, 6% Field Trips. 
Grading: tba

**EEB 4611 Biogeochemical Processes**
3 credit(s); prereq [CHEM 2301, PHYS 1201] or instr consent ;
Instructor: Cotner,James B
Description: Application of biochemistry, ecology, chemistry, and physics to environmental issues. Impact of humans on biogeochemical processes in soils, lakes, oceans, estuaries, forests, urban/managed ecosystems, and extreme environments (e.g., early Earth, deep sea vents, thermal springs). Style: 80% Lecture, 20% Discussion. Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% in-class presentation, 20% problem solving. Exam Format: Essay

**EEB 5068 Plant Physiological Ecology**
OPT No Aud, 3 credit(s);
Instructor: Cavender-Bares,Jeannine Marie
Description: Student may contact the instructor or department for information.

**EEB 5146 Science and Policy of Global Environmental Change**
A-F only, 3 credit(s); prereq Biol 3407 Biol 5407 or equiv; Credit will not be granted if credit has been received for: FR 5146;
Instructor: Hobbie,Sarah E
Description:

**EEB 5601 Limnology**
3 credit(s); prereq Grad student or instr consent ;
Instructor: Finlay,James C
Description: Student may contact the instructor or department for information.

**ECON 1101 Principles of Microeconomics**
4 credit(s); prereq knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1104, 1111, ApEc 1101; Credit will not be granted if credit has been received for: APEC 1101; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Tilman,G David
Description: Student may contact the instructor or department for information.

**ECON 8990 Graduate Seminar**
1-3 credit(s), max credits 30, 10 repeats allowed; prereq instr consent ;
Instructor: Waters,C. Kenneth
Description: Student may contact the instructor or department for information.

**Electrical and Computer Engineering**

**ECON 8990 Graduate Seminar**
1-3 credit(s), max credits 30, 10 repeats allowed; prereq instr consent ;
Instructor: Wallace,Robert
Description: Student may contact the instructor or department for information.

**ECON 8994 Directed Research**
S-N only, 1-S credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Packer,Graig
Description: Student may contact the instructor or department for information.

**ECON 8994 Directed Research**
S-N only, 1-S credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Simons,Andrew M.
Description: This is an introductory course in Economics. Topics covered include the behavior of consumers, firms, and markets in the domestic and world economy. Interdependencies in the global economy, and effects of global linkages on individual decisions. Style: 75% Lecture. in discussion section

Economics

**ECON 1101 Principles of Microeconomics**
4 credit(s); prereq knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1104, 1111, ApEc 1101; Credit will not be granted if credit has been received for: APEC 1101; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Tilman,G David
Description: Student may contact the instructor or department for information.
ECON 1102 Principles of Macroeconomics
4 credit(s); prereq [1101 or equiv], knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1105, 1112, ApEc 1102; Credit will not be granted if credit has been received for: APEC 1102; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: STAFF
Description: This is an introductory course in Economics. It includes the study of macroeconomic indicators; the role of money; role of fiscal and monetary policy; international trade; interdependencies among nations.
Style: 75% Lecture. discussion section

ECON 1905 Freshman Seminar
A-F only, 3 credit(s); prereq freshman;
Instructor: Rustichini,Aldo
Description: Game Theory and Human Nature Game Theory is the systematic analysis of strategic environment, like wars among states, competition among firms, and relationships among husband and wife. Together with the application of experiments methods, it is now providing a tool to understand some fundamental aspects of human nature, from sympathy to envy. The course will provide the basic tools to a good understanding of game theory and experimental analysis of human behavior in strategic situations. No special prerequisites are need, but the students will be asked to play an active role in the learning process. Books 1. Strategy: An Introduction to Game Theory, by Joel Watson 2. Evolution and the Theory of Games, Maynard Smith, J., Cambridge Univ. Press.

ECON 3101 Intermediate Microeconomics
4 credit(s); prereq 1101, 1102 or equiv, Math 1271 or equiv; Credit will not be granted if credit has been received for: APEC 3001;
Instructor: STAFF
Description: This is a required course for Economics majors, and is a prerequisite for most upper-division Economics courses. It essentially provides you with tools necessary to work with economic theory. Students should have completed Calculus I successfully PRIOR to taking this course. Students are NOT permitted to take Calc I concurrently. The course includes the study of consumer and producer behavior under competitive and monopolistic conditions; factors influencing production, price, and other decisions of the firm; applications of the theory.
Style: 100% Lecture.
Exam Format: problems, short essays

ECON 3102 Intermediate Macroeconomics
4 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: APEC 3006;
Instructor: STAFF
Description: This is one of the two basic tool courses for Economics majors. The prerequisite is Econ 3101, which students must have completed successfully PRIOR to taking this course. Students are NOT permitted to take both concurrently, or take Econ 3102 prior to Econ 3101. The course includes determinants of national income, employment, and price level; effects of fiscal and monetary policies; with an emphasis on a general equilibrium approach. Economic growth is also discussed.
Style: 100% Lecture.
Exam Format: Problems and short essays

ECON 3701 Money and Banking
3 credit(s); prereq 1101, 1102 or equiv; not open to Econ majors; Credit will not be granted if credit has been received for: ECON 4721;
Instructor: STAFF
Description: This course is for non-majors in Economics. It includes an introduction to the history and role of financial institutions, the Federal Reserve system and banking, and monetary policy.
Style: 100% Lecture.
Exam Format: Some problems and short essays

ECON 3951 Major Project Seminar
A-F only, 2 credit(s); prereq [3101 or 3102 or equiv], fr writing requirement satisfied;
Instructor: STAFF
Description: A senior project is a requirement for the BA and BA-Q degrees in Economics. Students work with the instructor to produce a significant piece of written work in Economics. Criteria for the paper: to demonstrate critical thinking in Economics; collection and analysis of data; economic analysis and effective interpretation of results. Should be modeled as an economics journal article. Check the Undergraduate Handbook (web version or hard copy) on the four ways to satisfy this requirement.
Style: No formal meeting time. Please contact the instructor via email.
Grading: 100% reports/papers.

ECON 4100W Undergraduate Writing in Economics
A-F only, 1 credit(s), max credits 2; prereq 3101, [concurrent enrollment in 4831 or concurrent enrollment in economics honors course], instr consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Students can sign up for this one-credit course if they are concurrently registered for an Economics Honors course or for Econ 4831. This will enable them to make the honors course writing intensive. Students receive the assignment from the instructor of the honors course. The Econ 4100W TA works with students to help them write the paper. Students turn in various drafts to the TA and receive feedback on every assignment. The final product is the completed paper.
Grading: 100% reports/papers.

ECON 4113 Introduction to Mathematical Economics
4 credit(s); prereq 3101, 3102 or equiv, Math 1271-1272-2243 or equiv;
Instructor: STAFF
Description: The course includes the central mathematical techniques used in the mathematical approach to economic analysis. Includes optimization with constraints, emphasizing the approach derived from multivariate calculus.
Style: 95% Lecture, 5% Discussion.

ECON 4163 Microeconomic Analysis
2 credit(s); prereq 4162, instr consent;
Instructor: Werner,Jan
Description: Student may contact the instructor or department for information.

ECON 4164 Microeconomic Analysis
2 credit(s); prereq 4153, instr consent;
Instructor: Allen,Beth Elaine
Description: Student may contact the instructor or department for information.

ECON 4167 Macroeconomic Theory
2 credit(s); prereq 4166, instr consent;
Instructor: Perri,Fabrizio
Description: Student may contact the instructor or department for information.

ECON 4168 Macroeconomic Theory
2 credit(s); prereq 4167, instr consent;
Instructor: Rios-Rull,Jose Victor
Description: Student may contact the instructor or department for information.

ECON 4171 History of Economic Thought
3 credit(s); prereq 3101, 3102 or equiv;
Instructor: STAFF
Description: Covers history of economic thought - includes the Mercantilist and Physiocratic doctrines, Adam Smith, Ricardo, Malthus, Marx, Keynes, and modern theory. Some additional topics at the discretion of the instructor.
Style: 90% Lecture, 10% Discussion.
Exam Format: essays
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
<th>Style</th>
<th>Exam Format</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ECON 4261</td>
<td>Introduction to Econometrics</td>
<td>3</td>
<td>A-F only, 4 credit(s); prereq [3101 or equiv], ([Math 1271, Math 1272] or equiv), Math 2243, Math 2263, [Stat 4101, Stat 4102] or [Stat 5101, Stat 5102]</td>
<td>STAFF</td>
<td>This is a required course for Economics B.S. majors. Students must complete all prerequisites successfully PRIOR to taking this course. The course includes the basic linear regression model, time series analysis, panel data, discrete choice models. Computer applications (normally GAUSS is used).</td>
<td>90%</td>
<td>problems</td>
<td></td>
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<tr>
<td>ECON 4301</td>
<td>Economic Development</td>
<td>3</td>
<td>prereq [1101, 1102] or equiv, non-econ major; Credit will not be granted if credit has been received for: ECON 4331W</td>
<td>Smith, Harlan M</td>
<td>An intensive writing course. Textbook: Todoro, &quot;Economic Development&quot;, 7th ed.</td>
<td>90%</td>
<td>essays</td>
<td></td>
</tr>
<tr>
<td>ECON 4311</td>
<td>Latin America</td>
<td>3</td>
<td>prereq [1101, 1102] or equiv; non-open to Econ majors; Credit will not be granted if credit has been received for: ECON 4337, Meets CLE req of International Perspect Theme</td>
<td>Erdogan, Ayse Mujde</td>
<td>Economic evolution in Latin America since the 1950s. Development, growth, trade, liberalization, poverty, inflation, budgets, other important issues in the Latin American economies.</td>
<td>90%</td>
<td>Discussion</td>
<td>10%</td>
</tr>
<tr>
<td>ECON 4315</td>
<td>The Japanese Economy</td>
<td>3</td>
<td>prereq 1101, 1102 or equiv</td>
<td>STAFF</td>
<td>Economic development of Japan. Issues covered include trade, development, growth, population, capital formation, international economic relations, agricultural and industrial policies, role of government, and current issues.</td>
<td>95%</td>
<td>Discussion</td>
<td>5%</td>
</tr>
<tr>
<td>ECON 4331W</td>
<td>Economic Development</td>
<td>3</td>
<td>prereq [3101, 3102] or equiv; Credit will not be granted if credit has been received for: ECON 4301, Meets CLE req of Writing Intensive</td>
<td>STAFF</td>
<td>Econ 4331W is a writing intensive course, and students need at least a C in the paper to pass the course. Economic growth and development - indicators, evidence in low and high income countries. Growth theory. Resource allocation.</td>
<td>90%</td>
<td>Discussion</td>
<td>10%</td>
</tr>
<tr>
<td>ECON 4337</td>
<td>Comparative Economic Systems</td>
<td>3</td>
<td>prereq 3101, 3102 or equiv; Credit will not be granted if credit has been received for: ECON 4307, Meets CLE req of International Perspect Theme</td>
<td>STAFF</td>
<td>Study of various economic systems, functions and comparisons. Post-socialist transitions in Eastern Europe, Russia, Asia, and China. Economic reforms. Case studies of various countries.</td>
<td>90%</td>
<td>Discussion</td>
<td>10%</td>
</tr>
<tr>
<td>ECON 4331V</td>
<td>Honors Course: International Trade</td>
<td>4</td>
<td>prereq [3101, 3102] or equiv, Math 1271</td>
<td>STAFF</td>
<td>Offered mainly for Economics majors. This course studies international trade including trade theories, trade and growth, trade restrictions, regional trading blocs, protection, and regional integration. This is a writing intensive course, and students need at least a C in the paper to pass the course. Real world applications and examples abound.</td>
<td>95%</td>
<td>Discussion</td>
<td>5%</td>
</tr>
<tr>
<td>ECON 4431W</td>
<td>International Trade</td>
<td>3</td>
<td>prereq 3101, 3102 or equiv; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive</td>
<td>Sahi, Simran</td>
<td>Offered mainly for Economics majors. The course studies international trade including trade theories, trade and growth, trade restrictions, regional trading blocs, protection, and regional integration. This is a writing intensive course, and students need at least a C in the paper to pass the course. Real world applications and examples abound.</td>
<td>90%</td>
<td>Discussion</td>
<td>10%</td>
</tr>
<tr>
<td>ECON 4432W</td>
<td>International Finance</td>
<td>3</td>
<td>prereq 3101, 3102 or equiv; 4431 or 4439 or equiv recommended; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive</td>
<td>STAFF</td>
<td>Balance of payments, international financial markets, exchange rates, international monetary systems, international investment and capital flows, open economy macroeconomic policy.</td>
<td>95%</td>
<td>Discussion</td>
<td>5%</td>
</tr>
<tr>
<td>ECON 4621H</td>
<td>Honors Course: Urban Economics</td>
<td>4</td>
<td>prereq 3101 or equiv</td>
<td>STAFF</td>
<td>Economics of urbanization. Location of economic activity and of cities. Urban economic problems and policies.</td>
<td>90%</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>ECON 4631H</td>
<td>Industrial Organization and Antitrust Policy</td>
<td>3</td>
<td>prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 4631H</td>
<td>STAFF</td>
<td>Relations between market structure, economic efficiency and welfare. Economic origins of market imperfections - monopoly and other restraints on competition. Purpose of antitrust and related legislation and effects. Industrial policy. Some case studies. This course is sometimes offered concurrently with Econ 3801.</td>
<td>90%</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>ECON 4721</td>
<td>Money and Banking</td>
<td>3</td>
<td>prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 3701;</td>
<td>STAFF</td>
<td></td>
<td>90%</td>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Instructor: STAFF
Description: Theories of money demand and money supply. Financial intermediation, banking, nonbank financial institutions, bank regulation. Role of the Federal Reserve System. Monetary policy.
Style: 95% Lecture, 5% Discussion.

ECON 4731H Honors Course: Macroeconomic Policy
4 credit(s); prereq [3101, 3102] or equiv, Math 1271, honors;
Instructor: STAFF
Description: The emphasis of this course is on Macroeconomic Policy, studied in a quantitatively rigorous way. We begin by reviewing the household consumption and leisure choice, and the market-clearing model. We then study inflation, unemployment, growth, taxation, government debt, and monetary policy and fiscal policy. This honors section will analyze the topics more in-depth than the corresponding regular section and will require a couple of extra readings.
Style: 95% Lecture, 5% Discussion.
Grading: 45% mid exam, 45% final exam, 10% problem solving.
Exam Format: questions, essays

ECON 4741H Honors: Quantitative Analysis of the Macroeconomy
4 credit(s); prereq [3101, 3102] or equiv, [Stat 3011 or equiv];
Instructor: STAFF
Style: 95% Lecture, 5% Discussion.
Exam Format: problems, short essays

ECON 4751 Financial Economics
3 credit(s); prereq 3101 or equiv, Math 1271 or equiv, 1 sem statistics; Credit will not be granted if credit has been received for: ECON 4751H;
Instructor: STAFF
Style: 95% Lecture, 5% Discussion.
Exam Format: problems

ECON 4831 Cost-Benefit Analysis
3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 4611H;
Instructor: STAFF
Description: Principles for evaluating benefits and costs of public projects or programs. Issues concerned with definition of benefits and costs. Rate of return, rate of discount. Market imperfections, risk, and uncertainty. Case studies.
Style: 95% Lecture, 5% Discussion.
Exam Format: problems

ECON 4993 Directed Study
1-4 credit(s), max credits 4, 1 repeat allowed; prereq For honors thesis, instr consent;
Instructor: STAFF
Description: This is for economics honors theses only.

ECON 5109H Game Theory for Engineers
A-F only, 4 credit(s); prereq [[Math 2283, Math 2373, Math 2374, Math 3283] or Math 4606], M.S./Ph.D. student in [engineering or comp sci or info tech or operations mgmt]] or instr consent; not for econ [undergrads or Phd students]; credit will not be granted if credit received for: 8101, 8102, 8103, 8104, 8117, 8118, 8119;
Instructor: Allen,Beth Elaine
Description: Student may contact the instructor or department for information.

ECON 8003 Microeconomic Analysis
2 credit(s); prereq 8002;
Instructor: Werner,Jan
Description: Student may contact the instructor or department for information.

ECON 8004 Microeconomic Analysis
2 credit(s); prereq 8003;
Instructor: Allen,Beth Elaine
Description: Student may contact the instructor or department for information.

ECON 8103 Microeconomic Theory
2 credit(s); prereq 8102, concurrent enrollment Math 5616 or concurrent enrollment Math 8602 or comparable abstract math course, grad econ major or instr consent;
Instructor: Rustichini,Aldo
Description: Student may contact the instructor or department for information.

ECON 8104 Microeconomic Theory
2 credit(s); prereq 8103, concurrent enrollment Math 5616 or concurrent enrollment Math 8602 or comparable abstract math course, grad econ major or instr consent;
Instructor: Chung,Kim Sau
Description: Student may contact the instructor or department for information.

ECON 8107 Macroeconomic Theory
2 credit(s); prereq 8106;
Instructor: Perri,Fabrizio
Description: Student may contact the instructor or department for information.

ECON 8108 Macroeconomic Theory
2 credit(s); prereq 8107;
Instructor: Rios-Rull,Jose Victor
Description: Student may contact the instructor or department for information.

ECON 8112 Introduction to Mathematical Economics
2 credit(s); prereq 8111, concurrent enrollment 8102, concurrent enrollment Math 5615 or comparable abstract math course;
Instructor: Rahman,David Masiur
Description: Student may contact the instructor or department for information.

ECON 8182 Advanced Topics in Microeconomics
2 credit(s), max credits 4; prereq 8104 or instr consent;
Instructor: Rustichini,Aldo
Description: Student may contact the instructor or department for information.

ECON 8182 Advanced Topics in Microeconomics
2 credit(s), max credits 4; prereq 8104 or instr consent;
Instructor: Rahman,David Masiur
Description: Student may contact the instructor or department for information.

ECON 8192 Workshop in Mathematical Economics
1-3 credit(s), max credits 10, 10 repeats allowed; prereq 8104 or instr consent;
Instructor: Werner,Jan
Description: Student may contact the instructor or department for information.

ECON 8207 Applied Econometrics
2 credit(s); prereq 8206, concurrent enrollment 8103, concurrent enrollment 8107, concurrent enrollment Stat 5102 or instr consent;
Instructor: Kim,Kyoo-il
Description: Student may contact the instructor or department for information.
ECON 8208 Applied Econometrics
2 credit(s); prereq 8207, concurrent enrollment 8104, concurrent enrollment 8108, concurrent enrollment Stat 5102 or instr consent;
Instructor: Bajari, Patrick Ludvig
Description: Student may contact the instructor or department for information.

ECON 8211 Econometrics
2 credit(s); prereq 5151, 5152, Math 4242 or equiv, Stat 5102 or instr consent;
Instructor: Kim, Kyoo-il
Description: Student may contact the instructor or department for information.

ECON 8212 Econometrics
2 credit(s); prereq 8211;
Instructor: Bajari, Patrick Ludvig
Description: Student may contact the instructor or department for information.

ECON 8311 Economic Growth and Development
2 credit(s); prereq 8104, 8106 or instr consent;
Instructor: Luttmer, Erzo
Description: Student may contact the instructor or department for information.

ECON 8312 Economic Growth and Development
2 credit(s); prereq 8311 or instr consent;
Instructor: Schmitz Jr, James A
Description: Student may contact the instructor or department for information.

ECON 8392 Workshop in Economic Growth and Development
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Jones, Larry
Description: Student may contact the instructor or department for information.

ECON 8403 International Trade and Payments Theory
2 credit(s); prereq 8402 or instr consent;
Instructor: Kehoe, Patrick James
Description: Student may contact the instructor or department for information.

ECON 8404 International Trade and Payments Theory
2 credit(s); prereq [8402, 8403] or instr consent;
Instructor: Kehoe, Patrick James
Description: Student may contact the instructor or department for information.

ECON 8492 Workshop in Trade and Development
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Perri, Fabrizio
Description: Student may contact the instructor or department for information.

ECON 8503 Wages and Employment
2 credit(s); prereq 8502 or instr consent;
Instructor: Rios-Rull, Jose Victor
Description: Student may contact the instructor or department for information.

ECON 8582 Advanced Topics in Labor Economics
2 credit(s), max credits 4; prereq 8502 or instr consent;
Instructor: Rios-Rull, Jose Victor
Description: Student may contact the instructor or department for information.

ECON 8603 Industrial Organization and Government Regulation
2 credit(s); prereq 8602 or instr consent;
Instructor: Petrin, Amil Kenneth
Description: Student may contact the instructor or department for information.

ECON 8681 Advanced Topics in Industrial Organization
2 credit(s), max credits 4; prereq 8603 or instr consent;
Instructor: Bajari, Patrick Ludvig
Description: Student may contact the instructor or department for information.

ECON 8692 Workshop in Applied Microeconomics
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Bajari, Patrick Ludvig
Description: Student may contact the instructor or department for information.

ECON 8692 Workshop in Applied Microeconomics
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Luttmer, Erzo
Description: Student may contact the instructor or department for information.

ECON 8703 Monetary Economics
2 credit(s); prereq 8702 or instr consent;
Instructor: Weber, Warren E
Description: Student may contact the instructor or department for information.

ECON 8706 Financial Economics
2 credit(s); prereq 8705 or instr consent;
Instructor: Luttmer, Erzo
Description: Student may contact the instructor or department for information.

ECON 8892 Workshop in Public Economics and Policy
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Phelan, Christopher James
Description: Student may contact the instructor or department for information.

EDHD 5001 Learning, Cognition, and Assessment
3 credit(s); prereq MED/initial licensure student or CLA music ed or preteaching major or instr consent; psych course recommended; Credit will not be granted if credit has been received for: EPSY 3119;
Instructor: Samuels, S Jay
Description: The purpose of this course is to help pre-service teachers learn how to use psychology to improve all aspects of instruction.
Style: 50% Lecture, 50% Discussion.
Grading: 33% mid exam, 33% final exam, 33% special projects.
Exam Format: Multiple choice

EDHD 5003 Developmental and Individual Differences in Educational Contexts
A-F only, 3 credit(s); prereq Jr or sr or post-bac or MED/initial licensure or CLA music ed or preteaching major or FOE or agriculture or kinesiology or instr consent;
Instructor: Rodgerson, Richard W
Description: Overview of developmental and individual differences of children and adolescents in educational contexts; emphasis on a dynamic systems, evolutionary (selectionist), and ecological perspectives; development transitions in childhood and adolescence; interactions between the student, environment, and task; and accommodations and adaptations for students in special education.
Grading: 100% reports/papers.
EDHD 5005 School and Society
A-F only, 2 credit(s); prereq Jr or sr or MEA/initial licensure student or CLA music ed major or preteaching major or instr consent;
Instructor: Brunner, C Cyress
Description: Student may contact the instructor or department for information.

EDHD 5007 Technology for Teaching and Learning
A-F only, 1.5 credit(s); prereq [MEA/initial licensure or CLA music ed major or preteaching major or instr consent], basic computer skills;
Instructor: Peterson, Darrell Howard
Description: Student may contact the instructor or department for information.

EDHD 5009 Human Relations: Applied Skills for School and Society
A-F only, 1 credit(s); prereq MEA/initial lic or CLA music ed or preteaching or instr consent;
Instructor: Hilk, Caroline L
Description: Student may contact the instructor or department for information.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Strommer, Jean Theresa
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.
Style: 20% Lecture, 5% Film/Video, 50% Discussion, 20% Small Group Activities, 5% Student Presentation.
Grading: 40% reports/papers, 20% reflection paper, 20% in-class presentation, 20% class participation.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Garret Dikkers, Amy Elizabeth
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Fredrickson, Brian Steven
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Hellstrom, David P
Description: This 1000 level course introduces leadership using a personal leadership perspectives and frameworks. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of leaders within the University of Minnesota and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Christopherson, Christen Ruth
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.
Style: 100% Web Based. Web-based work includes discussion forum and 2 student presentations.
Grading: 50% reports/papers, 15% reflection paper, 10% in-class presentation, 25% class participation.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Barsness, Amy O'Leah
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Scott PharmD, Doneka R
Description: Student may contact the instructor or department for information.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Portner, Jennifer Logan Rachmaciej
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Brunner, Robert H

EDPA 3010 Special Topics for Undergraduates
1-3 credit(s), max credits 9, 9 repeats allowed;
Instructor: STAFF
Description: Inquiry into educational policy and administration problems and issues. No special topic has yet been approved for Fall 2000.

EDPA 3010 Special Topics for Undergraduates
3 credit(s), max credits 9, 9 repeats allowed;
Instructor: Osburn Jr, Robert H

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Most appropriate for students who have taken at least one year of coursework, the course examines the increasing complexity of religious life in America and disputes regarding the place of religion and religious practice in public life. These call for discernment in the classroom, as well as greater skill in understanding the historical and contemporary role of religious belief and expression in K-12 and higher education. Students will interact with community and religious leaders, consider legal and ethical issues in schooling, as well as issues of religion and values education, school prayer, students’ and educators’ rights and responsibilities with respect to religious expression, religion in the global educational context, and related topics.

Style: 25% Lecture, 25% Discussion, 10% Small Group Activities, 5% Field Trips, 35% Guest Speakers. Weekly guest speakers will address topics on religion and educational policy from varying perspectives.

Grading: 35% reports/papers, 30% written homework, 20% reflection paper, 15% class participation.

EDPA 3103 Global Identity: Connecting Your International Experience to Your Future
S-N only, 1 credit(s); prereq [3102 or instr consent ], studying abroad the semester student is enrolled in course;
Instructor: Paige, R Michael
Description: Student may contact the instructor or department for information.

EDPA 3302 Leadership, You, and Your Community
A-F only, 3 credit(s); prereq [1301W or PA 1961W], grade of at least C, [soph or at least 60 cr]; Credit will not be granted if credit has been received for: PA 3961;
Instructor: Christopherson, Christen Ruth
Description: This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate and leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the timeline, history, current status, and stories of the HIV/AIDS pandemic as a context. As the theme for the course, many portions of the class content and discussion will explore the HIV/AIDS pandemic. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, the instructor—in addition to two teaching assistants?will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

EDPA 3302 Leadership, You, and Your Community
A-F only, 3 credit(s); prereq [1301W or PA 1961W], grade of at least C, [soph or at least 60 cr]; Credit will not be granted if credit has been received for: PA 3961;
Instructor: Lloyd, Anna K
Description: This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate and leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the timeline, history, current status, and stories of the HIV/AIDS pandemic as a context. As the theme for the course, many portions of the class content and discussion will explore the HIV/AIDS pandemic. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, the instructor—in addition to two teaching assistants?will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

EDPA 3402 Leadership Minor: Field Experience
A-F only, 2 credit(s); prereq [3302W or PA 3961W] with grade of at least C; Credit will not be granted if credit has been received for: PA 3971;
Instructor: Ve Lure, Christine Elizabe
Description: Student may contact the instructor or department for information.

EDPA 3402 Leadership Minor: Field Experience
A-F only, 2 credit(s); prereq [3302W or PA 3961W] with grade of at least C; Credit will not be granted if credit has been received for: PA 3971;
Instructor: Nobbe, June Elly
Description: The field experience is an internship-based course that requires students to integrate lessons learned from the core leadership courses into practical leadership situations. Students may choose to have a field experience in a variety of settings, such as local community organizations or educational settings, as long as the selected site works directly with a social issue in the community or world. Each student will be asked to identify...
EDPA 4303W Leadership for Global Citizenship
A-F only, 3 credit(s); prerequisite [3402 or PA 3971]; Credit will not be granted if credit has been received for: PA 4961W; Meets CLE req of Writing Intensive;
Instructor: Brandt, Carl
Description: Student may contact the instructor or department for information.

EDPA 4303W Leadership for Global Citizenship
A-F only, 3 credit(s); prerequisite [3402 or PA 3971]; Credit will not be granted if credit has been received for: PA 4961W; Meets CLE req of Writing Intensive;
Instructor: Atwood, Susan J
Description: This course, the capstone academic experience in the Undergraduate Leadership Minor sequence, is designed to focus student learning that has been developed in earlier leadership courses. Leadership theory, community building, social change, and interdisciplinary approaches to complex global issues will be the main components in this course. Students will be expected to demonstrate skill in analysis of pertinent literature, write with purpose and clarity, appreciate intense internships, and lead thoughtful group study. In this course, students will finalize portfolios and submit other scholarly products to demonstrate a mature understanding of personal and positional leadership in a changing global context.

EDPA 5001 Formal Organizations in Education
3 credit(s);
Instructor: Anderson, Melissa S.
Description: This course presents four frameworks that can be used for understanding organizations, how they work, and how people in them behave. It then branches out to other organizational topics such as conflict, communication and leadership. The class sessions combine lectures and interactive exercises. Most people complete the course with greatly enhanced insight as to how organizations—especially schools, colleges, and universities—work. The course is geared toward graduate students.
Style: 25% Lecture, 50% Discussion. in-class projects
Grading: 20% final exam, 65% reports/papers, 15% class participation.
Exam Format: essay

EDPA 5011 Leading Organizational Change: Theory and Practice
3 credit(s);
Instructor: Seashore, Karen Rose
Description: Student may contact the instructor or department for information.

EDPA 5044 Introduction to the Economics of Education
3 credit(s);
Instructor: Fry, Gerald Walton
Description: Costs and economic benefits of education, with a focus on K-12; educational markets, prices, and production relationships; investment and cost-benefit analysis.

EDPA 5061 Ethnographic Research Methods
3 credit(s);
Instructor: Fry, Gerald Walton
Description: This seminar provides an overview of the various approaches to doing ethnographic research. Among techniques and methods to be examined are accessing communities; formulation of questions; various types of interviewing; participant-observation; selecting and working with informants; life history research and understanding cultural identities; case studies; and writing up field data. The uses and abuses of ethnography as a tool for studying other cultures is critically assessed. Also considered are ethical issues in the use of ethnography. In the course there is a special emphasis on experiential education and learning. Students will conduct a mini-ethnography, directly relevant to their professional interests. There are no examinations, but instead a set of experiential activities to enhance students' competence in doing ethnographic research. Each student will develop a portfolio of writings related to various activities. A major goal is to have students develop professional competency in using various ethnographic research methods. There is a special focus on the non-Western critique of conventional cross-cultural research and the emergence of indigenous approaches to research. A key text for the course is a volume by Linda Tuhiwai Smith titled "Decolonizing Methodologies." The course is intended for graduate students or seniors who anticipate doing intercultural and/or international research.
Style: 30% Lecture, 70% Discussion.
Grading: 80% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: None

EDPA 5080 Special Topics: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 repeats allowed;
Instructor: Atwood, Susan J
Description: This course presents four frameworks that can be used for understanding organizations, how they work, and how people in them behave. It then branches out to other organizational topics such as conflict, communication and leadership. The class sessions combine lectures and interactive exercises. Most people complete the course with greatly enhanced insight as to how organizations—especially schools, colleges, and universities—work. The course is geared toward graduate students.
Style: 25% Lecture, 50% Discussion. in-class projects
Grading: 20% final exam, 65% reports/papers, 15% class participation.
Exam Format: essay

EDPA 5080 Special Topics: Educational Policy and Administration: Human Rights Education
3 credit(s), max credits 24, 24 repeats allowed;
Instructor: Weerts, David J
Description: The intent of this course is to foster enthusiasm and commitment to Human Rights and Human Rights Education. Human Rights Education will equip students with the pedagogies, methods, and strategies appropriate for teaching Human Rights. This course is designed for those who want to be teachers of and leaders for Human Rights in PK-12 education and community-based organizations. For more information please contact the instructors: Amy Garrett Dikkers, EdPA, garre014@umn.edu and Kristi Rudelius-Palmer, University Human Rights Center, krp@umn.edu
Style: Online course, no face-to-face meetings. Offered through Moodle.

EDPA 5080 Special Topics: Educational Policy and Administration: Public Engagement and Higher Education
3 credit(s), max credits 24, 24 repeats allowed;
Instructor: Weerts, David J
Description: This special topics course is designed to introduce students to the practice of community engagement in higher education. During this nine-week session, students and instructors will consider the civic roles of postsecondary education institutions both past and present. Special attention will be paid to contemporary philosophies and practices of engagement, and how engagement is expressed in various institutional contexts. Upon completion of this course, students will be able to: ? Articulate an understanding about higher education?s role in society and how this role has evolved over time ? Understand various philosophies and theoretical frameworks that guide engagement research and practice, and how these conceptual pieces inform the development of engagement programs ? Gain an understanding about best practices of engaged teaching and learning, scholarship, and service, and how these practices may vary by institutional mission and context. ? Develop strategies for supporting engagement on their own campuses (i.e., engagement infrastructure, etc.) ? Consider future directions for research on engagement

EDPA 5087 Seminar: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 repeats allowed;
Instructor: STAFF
Description: Shared responsibility of students/instructor in presentation of topics.

EDPA 5095 Problems: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 repeats allowed;
EDPA 5096 Internship: Educational Policy and Administration
1-9 credit(s), max credits 24, 24 repeats allowed;
Instructor: STAFF
Description: Internship in elementary, secondary, general, or postsecondary administration, or other approved field-related setting.

EDPA 5101 International Education and Development
3 credit(s);
Instructor: Vavrus, Frances
Description: Introduction to international development education; history and theories of international development; debates over the role of education and international development institutions in the economic, political, and sociocultural development of nations; examination of current topics and critical issues in the field.

EDPA 5102 Knowledge Formats and Applications: International Development Education Contexts
3 credit(s);
Instructor: Harkins, Arthur M
Description: Knowledge Formats and Applications describes and explains the growing presence of knowledge as a resource in the multi-institutional global economy. Knowledge is defined as the means by which information resources are transformed into valuable products and services. First identified by Peter Drucker over thirty years ago, knowledge workers are now 40% of the U.S. workforce and growing. Knowledge mining and refining, innovation, management and application are covered, together with the role of telecomputing in supporting these interrelated functions. Students' papers utilize course resources to explore potential applications of knowledge systems and workers at selected points within the global framework. The class is Web CT-supported
Style: 40% Lecture, 30% Discussion. student reports
Grading: 40% reports/papers, 30% class participation, 30% other evaluation. paper-support portfolio

EDPA 5103 Comparative Education
3 credit(s);
Instructor: Vavrus, Frances
Description: Introduction to the history, methods, and theoretical approaches in the field of comparative education; examination of educational systems and philosophies in different world regions and countries; consideration of how global economic and political forces shape education policy and practice; exploration of contemporary debates in the field through comparative case studies.

EDPA 5121 Educational Reform in International Context
3 credit(s);
Instructor: Garrett Dikkers, Amy Elizabeth
Description: This is a policy analysis course in which participants critically analyze specific examples of educational innovation and reform in selected countries. The course is organized around a set of readings, class discussion, and selected country case studies. Its central purpose is to use (a) theoretical perspectives regarding education and development and (b) a variety of policy analysis approaches to examine actual educational reforms and their implementation.
Style: 30% Lecture, 30% Discussion, 15% Student Presentation, 15% Guest Speakers, 10% Web Based.

EDPA 5124 Critical Issues in International Education and Educational Exchange
3 credit(s); Meets CI, F req of International Perspect Theme;
Instructor: Paige, R Michael
Description: This course will provide a comprehensive, multidimensional, and interdisciplinary framework for analyzing major policy and practice issues in international educational exchange. Participants will learn how international education is organized, defined, and implemented. We will examine how the field developed historically through four phases of internationalization and where it is today, how secondary and post secondary institutions define and administer international education, how they internationalize the curriculum; how those internalized aspects relate to "mainstream education" and to each other, and how other nations perceive international education. The course will also consider the ways scholars and practitioners differentiate among various levels of internationalization from the person (e.g., global awareness, to a country, one region of the world, or the world as a whole. The critical issues discussed in this course cluster around the field's conceptual development; its multidisciplinary; its integration of learning; the production, consumption, and transfer of international knowledge; the nature of such knowledge; and its practical applications to programs, employment choices in global careers, and to fundamental issues and debates concerning pedagogy and strategies for enhancing multicultural understanding. The major text for the class is _Reforming the High Education Curriculum: Internationalizing the Campus_ by Josef A Mestenhauser and Brenda J. Ellingboe.
Style: 50% Lecture, 40% Discussion. Special guest lectures
Grading: 60% final exam, 40% reports/papers.
Exam Format: Take-home essay

EDPA 5128 Anthropology of Education
3 credit(s); Credit will not be granted if credit has been received for: ANTH 5128;
Instructor: Demerath, Peter
Description: Student may contact the instructor or department for information.

EDPA 5132 Intercultural Education and Training: Theory and Application
3 credit(s);
Instructor: Kappler, Barbara Jean
Description: Student may contact the instructor or department for information.

EDPA 5142 Youth Futures: Formal, Non-Formal, and Informal Learning Potentials
A-F only, 3 credit(s); prereq CIDE student or instr consent;
Instructor: Harkins, Arthur M
Description: Address strategic trends in global youth development, including positive/negative implications. Attention to reconciling positive/negative trends with normative scenarios with respect to presence, absence, and projected likelihood of suitable policies, workable collaborations, and funding.

EDPA 5310 Data-Driven Decision Making I
1 credit(s); prereq Broadband Internet access, a newer computer;
Instructor: Nielsen, Kristine Bryan
Description: Student may contact the instructor or department for information.

EDPA 5315 School Technology Leadership Multimedia Project
1 credit(s); prereq [(Mac or PC) with 256 MB RAM, [Windows NT 2000 or XP or Mac OS 9 or 10], Pentium [2 or faster], internet connection, [Netscape or Internet Explorer], virus protection software, School Technology Leadership] or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

EDPA 5323 Women in Leadership
3 credit(s); prereq Technology access, instr consent;
Instructor: Brunner, C Cyress
Description: Provides opportunities for male and female students to consider, learn about, explore, examine, research, think about, and discuss the topic of women in leadership within the context of larger systems and their own lives. Designed to advance the greater aims of supporting equity and equality across all areas of difference.

EDPA 5324 Strategic Financial Planning and Policy for
**EDPA 5348 Leaders of Human Resources Administration**

2 credit(s); prereq Designed for students working on licensure for dir of community educ or superintendent or K-12 principal or dir of special educ; Instructor: Lovett, Michael James

**Description:** Student may contact the instructor or department for information.

**EDPA 5356 Disability Policy and Services**

3 credit(s); Instructor: Johnson PhD, David Richard

**Description:** This course provides a broad overview of disability policy and services, and introduces students to philosophical approaches to service provision, historical development and context of community services for persons with disabilities, and contemporary approaches to providing services to people with disabilities throughout the life cycle. Researchers and professionals from the University of MN and community will offer information and best practical examples of service delivery approaches. Lecture, discussion and presentation by students are the primary focus of methods.

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 35% final exam, 20% reports/papers, 40% special projects, 5% class participation.

**Exam Format:** Essay

**EDPA 5361 Project in Teacher Leadership**

S-N only, 3 credit(s), max credits 6, 1 repeat allowed; prereq MEd student in Teacher Leadership Program; Credit will not be granted if credit has been received for: CI 5178; Instructor: York-Barr, Jennifer

**Description:** Create, implement, evaluate, and present a leadership project designed to initiate positive change in educational environments. Review of related literature, proposal development, project development, implementation and evaluation, critical reflection, sharing learning outcomes.

**EDPA 5368 Leadership for Special Education Services**

3 credit(s); prereq Administrator or supervisor or professional responsible for managing general or special or alternative education program; Instructor: Riesgraf, Kim Marie Wogensen

**Description:** Class Description: Legislative, procedural, executive, and judicial actions that affect services, families, and children with special needs at all levels of government: federal, state, and local. For administrators, supervisors, and other professionals responsible for managing general, special, and alternative education programs.

**EDPA 5381 The Search for Children and Youth Policy in the U.S.**

3 credit(s); Instructor: Schneider, Byron J

**Description:** Review of contemporary policy issues affecting children and youth in the U.S. and South Africa; identify national standards, norms and principles of youth development; conflicting expectations facing policy-makers; and search for the critical content of youth policy.

**EDPA 5385 Licensure Seminar: Program Policies and Inclusionary Leadership**

S-N only, 1 credit(s); Instructor: Werner PhD, Ann Zweber

**Description:** Preparation for licensure program. Program overview, preassessment, reflective practice, APA writing, exit panel review, administrative employment interview.

**EDPA 5386 Leadership Portfolio Seminar**

S-N only, 1 credit(s); prereq S385 or Concurrent registration is required (or allowed) in S385; Instructor: Kumagai, Gloria Lynn

**Description:** Development of electronic administrative licensure portfolio as part of process to earn endorsement for licensure as a school superintendent, K-12 principal, director of special education, or director of community education.

**EDPA 5387 Leadership for Teaching and Learning**

2 credit(s); prereq Undergrad degree; Instructor: York-Barr, Jennifer

**Description:** Administration of teaching/learning as a system in an inclusive school system. Multiple experts present components of system. Focuses on questions an administrator must address when functioning as leader of learning.

**EDPA 5389 Community Education Leadership**

3 credit(s); Instructor: Latimer, Sally Winifred

**Description:** Competencies of leadership, community relations, communication, community assessment, program development, program evaluation. Philosophy/administration of community/alternative education programs.

**EDPA 5393 Leading School Finance Elections**

S-N only, 1 credit(s); Instructor: Blaesing, Theodore

**Description:** Student may contact the instructor or department for information.

**EDPA 5396 Field Experience in PK-12 Administration: Authentic Practice in Leadership**

S-N only, 3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent; Instructor: Nickerson, Jr., Neal C.

**Description:** Field experience or internship arranged for students seeking licensure as PK-12 principal/superintendent. Content/credit depend on licensure requirements specified in individual field experience agreement.

**EDPA 5501 Principles and Methods of Evaluation**

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5243; Instructor: STAFF

**Description:** Student may contact the instructor or department for information.

**EDPA 5524 Evaluation Colloquium**

S-N only, 1 credit(s), max credits 24, 24 repeats allowed; prereq 5501 or EPSY 5243; Credit will not be granted if credit has been received for: EPSY 5246; Instructor: STAFF

**Description:** Informal seminar of faculty and advanced students interested in the issues and problems of program evaluation.

**EDPA 5528 Focus Group Interviewing Research Methods**

3 credit(s); Instructor: Krueger, Richard A

**Description:** Students will develop skills needed to conduct focus group interviews which involve learning and practicing techniques that result in successful focus groups. Students will be expected to conduct a focus group study and report results for the final class session. Attention is placed on using focus groups in interpretative environments suitable for academic research, or as mixed-method applied research environments such as health, medical, educational, governmental and non-profit environments.

**EDPA 5704 College Students Today**

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5451; Instructor: Roper-Huiman, Rebecca Lynn

**Description:** This course focuses on how college students are affected by issues related to individual development, group identity, institutional actions, or social discourses.
EDPA 5734 Institutional Research in Postsecondary Education  
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;  
prereq [5701, (EPSy 5231 or EPSy 8261)], grad student) or instr consent;  
Instructor: Goldfine, Leonard S  
Description: Student may contact the instructor or department for information.

EDPA 8015 Research Design and Educational Policy  
A-F only, 3 credit(s); prereq 8011, EdPA PhD student;  
Instructor: Yeh, Stuart S  
Description: This 3 credit introductory course in research design and educational policy is required for, and limited to, Educational Policy and Administration Ph.D. students. The course covers the logic of research design, from research questions and audience considerations to the selection of a suitable design for collecting and analyzing quantitative, qualitative, and mixed-method data. The course provides a framework for understanding how specialized methodology, statistics and content-area courses, including courses in other units of the University, inform decisions related to research design. Quantitative and qualitative research methods are introduced, with a focus on issues in selecting appropriate methods. It is recommended that students pursue additional coursework in either quantitative methods, qualitative methods, or both before selecting methods for the dissertation. Each class session will cover key topics related to research design as well as the strengths, weaknesses, and uses of particular research designs. Students will learn skills in applying key concepts to case discussions of the major research designs, based on examples that illustrate relationships among the literature review, research questions, research design and methods, data analysis and conclusions. Core concepts will be introduced and applied through case discussions. These concepts will be revisited and elaborated throughout the course as students build sophistication regarding criteria and standards for judging the adequacy of a given research design as it is used to answer specific research questions. Instructional strategies include lecture, small group cooperative activities and discussions, whole group discussions, student presentations and papers.  
Grading: Student grades will be based on two (2) short research presentations (40%), the Final Research Proposal (30%), the Final Research Presentation (15%), and class participation (15%).

EDPA 8022 Education and Globalization: Anthropological Perspectives  
A-F only, 3 credit(s);  
Instructor: Demerath, Peter  
Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration  
1-3 credit(s), max credits 24, 24 repeats allowed;  
Instructor: Magnusson PhD, Deanne L.  
Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration: Advanced Seminar in Int'l Development Education  
1-2 credit(s), max credits 24, 24 repeats allowed;  
Instructor: Johnstone, Christopher J  
Description: Student may contact the instructor or department for information.

EDPA 8121 Doctoral Seminar: Comparative and International Development Education  
S-N only, 1-6 credit(s), max credits 6, 4 repeats allowed;  
prereq EdPA PhD candidate;  
Instructor: Magnusson PhD, Deanne L.  
Description: Student may contact the instructor or department for information.

EDPA 8121 Doctoral Seminar: Comparative and International Development Education  
S-N only, 1-6 credit(s), max credits 6, 4 repeats allowed;  
prereq EdPA PhD candidate;  
Instructor: Chapman, David W  
Description: Student may contact the instructor or department for information.

EDPA 8143 Integrative Seminar in Global Youth Policy and Leadership  
A-F only, 1 credit(s), max credits 3, 3 repeats allowed;  
prereq CIDe student or instr consent;  
Instructor: Harkins, Arthur M  
Description: 8143 is an “open” seminar, in the sense that guests of various professional and applied backgrounds are routinely invited to discuss current conditions and alternative futures for global youth, together with the policy and practice alternatives that could help these youth. Please contact Professor Arthur Harkins (harki001@umn.edu) or Professor Byron Schneider (schne003@umn.edu) for more information.

EDPA 8302 Educational Policy Perspectives  
3 credit(s);  
Instructor: Alexander, Nicola  
Description: EdPA 8302 is a required course in the PhD graduate program of Educational Administration. It focuses on the principles of policy analysis and introduces students to the techniques used systematically to analyze and resolve policy issues in the education arena. The focus is on ex ante policy analysis, so the starting point will be defining a problem. The rudimentary principles of policy analysis are reviewed, but we will also spend much of the time critiquing the literature in the field and applying the principles learned. The course aims to develop an understanding of the underlying structure of policy problems and to provide students with the appropriate guidelines of how sound analyses may be made. By the end of the course we will cover: major ethical worldviews that underlie policy formulation and analyses; policy analysis as problem solving and method; fundamental principles of policy analysis; components of a well-formulated policy argument; key steps underlying the policy analysis process; techniques used to conduct policy analysis; critical issues in educational administration for all program areas (Comparative and international education; educational administration (K-12); evaluation; and higher education).

EDPA 8321 Data Analysis for Educational Management  
3 credit(s);  
Instructor: Anderson, Melissa S.  
Description: Student may contact the instructor or department for information.

EDPA 8502 Program Evaluation Theory and Models: Qualitative and Quantitative Alternatives  
3 credit(s); prereq 5501 or EPSy 5243;  
Instructor: Yeh, Stuart S  
Description: EdPA 8502 is an intermediate-level seminar course focusing on analysis of problems and issues in evaluation. The course text is a set of key articles by major figures in the field of evaluation. The course begins with an examination of a basic problem facing evaluators: the difficulty of conducting valid evaluations of complex social and educational programs and policies. Each evaluation approach is then examined as a response to this problem of complexity.  
Style: 30% Lecture, 70% Discussion.  
Grading: 50% term paper, 10% class participation, 40% group papers

EDPA 8505 Evaluation Problems  
1-6 credit(s), max credits 24, 24 repeats allowed; prereq [5501 or EPSy 5243], instr consent; Credit will not be granted if credit has been received for: EPSY 8295;  
Instructor: King, Jean A.  
Description: Student may contact the instructor or department for information.

EDPA 8596 Evaluation Internship  
3 credit(s);  
Instructor: Byron Schneider (schne003@umn.edu) for more information.
1-9 credit(s), max credits 24, 24 repeats allowed; prereq [5501 or Epsy 5243], instr consent; Credit will not be granted if credit has been received for: EPSY 8296; Instructor: Krueger, Richard A
Description: Student may contact the instructor or department for information.

EDPA 8702 Administration and Leadership in Higher Education
3 credit(s); prereq 5001, 5701;
Instructor: Carl, David L.
Description: Student may contact the instructor or department for information.

EDPA 8732 Financing Higher Education
3 credit(s); prereq 5701;
Instructor: Weerts, David J
Description: Student may contact the instructor or department for information.

### Educational Psychology
250 Education Science Building

**EPSY 3119 Learning, Cognition, and Assessment**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDHD 5001; Meets CLE req of Social Science Core;
Instructor: Samuels, S Jay
Description: The purpose of this course is to help pre-service teachers learn how to use psychology to improve all aspects of instruction.
Style: 50% Lecture, 50% Discussion.
Grading: 33% mid exam, 33% final exam, 33% special projects.
Exam Format: Multiple choice

**EPSY 3264 Basic and Applied Statistics**
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;
Instructor: Lendway, Lisa Marie
Description: Student may contact the instructor or department for information.

**EPSY 3264 Basic and Applied Statistics**
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;
Instructor: LeBeau, Brandon
Description: Student may contact the instructor or department for information.

**EPSY 3264 Basic and Applied Statistics**
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;
Instructor: Karl, Stacy R
Description: Student may contact the instructor or department for information.

**EPSY 3264 Basic and Applied Statistics**
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231; Meets CLE req of Mathematical Thinking Core;
Instructor: Bjornsdottir, Audbjorg
Description: Student may contact the instructor or department for information.

**EPSY 3302 Introduction to Communication Skills for Educational and Community Settings**
OPT No Aud, 3 credit(s);
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

**EPSY 3303 Educational Psychology Undergraduate Research Practicum**
A-F only, 3 credit(s), max credits 6; prereq 3264, minor in applied psychology for educational/community settings;
Instructor: McComas, Jennifer
Description: Student may contact the instructor or department for information.

**EPSY 4300 Special Topics in Educational Psychology: Integrative Career/Life Planning**
3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Hansen, Sunny Sundal
Description: Student may contact the instructor or department for information.

**EPSY 4300 Special Topics in Educational Psychology: Integrative Career/Life Planning**
3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Hansen, Sunny Sundal
Description: Student may contact the instructor or department for information.

**EPSY 5010 Intelligence and Creativity**
A-F only, 3 credit(s);
Instructor: Bart, William M
Description: This course is intended to serve students (graduate, undergraduate, and adult special) interested in intelligence and creativity. The course will feature an examination of theories of intelligence and creativity and perspectives on the assessment and development of intelligence and creativity. Implications for educational practices, psychological research, and the professions and disciplines will also be studied. Attention will be provided to the role of interventions intended to enhance intellectual abilities and creativity and to relevant brain research on creativity and intelligence. The primary readings for the course will be one contemporary paperback text on creativity and one contemporary paperback text on human intelligence. This course will emphasize writing in the evaluation of student performance. Students will work in small groups to complete approximately 7 group discussion short answer essay questions. Students will learn early in the course the essay questions to be used in the course. Each student will complete a critical review of one scholarly article or book chapter, with either the article or the text chapter to be selected by the student, and one final paper. The course will be "Web Enhanced."
Style: 30% Discussion, 20% Small Group Activities, 50% Web Based. presentations; web enhanced course (URL not yet available)
Grading: 25% mid exam, 20% final exam, 42% reports/papers, 10% special projects, 3% other evaluation.
Exam Format: short essay

**EPSY 5112 Knowing, Learning, and Thinking**
A-F only, 4 credit(s);
Instructor: Tennyson, Robert D
Description: This course provides an introduction to the theory and practice of psychology in regards to the concepts of knowing, learning, and thinking. The overriding theme is the influence of psychological theories dealing with human cognition, with a focus on both historical and contemporary views and issues. The goal is to help the student acquire knowledge of
learning theories and their applications. Objectives: To acquire knowledge of educational foundations in learning philosophies and theories. Including the major theories of behaviorism, cognitive psychology, and sociocultural constructivism. To develop an understanding of the application of learning theory to improvements in learning. To apply learning philosophy and theory to a self-defined learning environment. Requirements: 1. Student Worksheets. To help students in applying information learned in an instructional session, student worksheets will be done directly during class. 15% of the final grade. 2. Statement of Learning Philosophy and Theory. The second is a written statement that includes both your philosophy of learning and theory of learning. Each student will make a presentation of his or her report during the last week of class. 30% of the final grade.

3. Selected Key Persons and Concepts. Preparation of a written definition of selected key persons and concepts in educational psychology. Students will present the concepts to the class with accompanying examples. 20% of final grade.

Style: 40% Lecture, 30% Discussion. Student presentations Grading: 20% final exam, 30% reports/papers, 15% special projects, 15% in-class presentation, 20% problem solving.

Exam Format: The final is a two-part examination: an oral presentation of his or her learning philosophy/theory, 15% of the final grade; a written exam of Key Persons and Key Concepts. 20% of the grade.

EPSY 5113 Psychology of Instruction and Technology
3 credit(s);
Instructor: Tennyson, Robert D
Description: Student may contact the instructor or department for information.

EPSY 5114 Psychology of Student Learning
A-F only, 3 credit(s);
Instructor: Varma, Sashank
Description: This course will cover how people learn, both in theory and in practice. It will focus on learning and knowing from the perspectives of cognitive psychology, developmental psychology, and cognitive neuroscience. It will also cover instructional methods that apply basic research findings to improve student performance in a variety of content domains: mathematics, reading, science, and history. Students will read, present, and discuss classic and contemporary papers and will write a literature review.

Style: 25% Lecture, 25% Discussion, 50% Student Presentation.

EPSY 5135 Human Relations Workshop
4 credit(s);
Instructor: Pabon, Maria
Description: Student may contact the instructor or department for information.

EPSY 5151 Cooperative Learning
3 credit(s);
Instructor: Johnson, Roger T
Description: Student may contact the instructor or department for information.

EPSY 5191 Education of the Gifted and Talented
A-F only, 3 credit(s);
Instructor: Taylor, Lucienne J
Description: The EPSY 5191 online course provides an overview of topics on the education of the gifted and talented. Topics include cognitive and affective characteristics of gifted and talented students, the identification of gifted and talented students, curricular and instructional issues, attracting underrepresented students, and parental and social relationships. The course will feature analysis of ideas, methods, and research finding presented in book chapters and research articles. Students participate with other course members through online discussion groups. At the end of the course you will have a sample plan for a district. EPSY 5191 will be attractive to future and current educators, counselors, and other interested parties concerned with the education of the gifted and talented. This course may also be used as part of the certification program in gifted education and talent development.

Style: 70% Discussion, researching information on the web
Grading: 60% reports/papers, 40% other evaluation. discussion questions
Exam Format: No exam

EPSY 5200 Special Topics: Psychological Foundations: Motivation in Education
3 credit(s), max credits 30, 30 repeats allowed;
Instructor: Samuels, S Jay
Description: Student may contact the instructor or department for information.

EPSY 5200 Special Topics: Psychological Foundations: Survey Data Analysis
1 credit(s), max credits 30, 30 repeats allowed;
Instructor: Dupuis, Danielle N
Description: Student may contact the instructor or department for information.

EPSY 5243 Principles and Methods of Evaluation
3 credit(s); Credit will not be granted if credit has been received for: EDPA 5501;
Instructor: STAFF
Description: Introduction to program evaluation. Planning an evaluation study, collecting and analyzing information, reporting results; evaluation strategies; overview of the field of program evaluation.

EPSY 5261 Introductory Statistical Methods
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231;
Instructor: Everson, Michelle G
Description: This course is designed to provide an overview of introductory statistics. The topics to be covered in this course include graphing techniques, measures of center and spread, normal distributions, correlation, simple linear regression, sampling methods, experimental design, sampling distributions, and methods of statistical estimation and inference. Upon completion of this introductory course, students should be able to: (1) think critically about statistics used in popular magazines, newspapers, and journal articles, (2) apply the knowledge gained in the course to analyze simple statistics used in research, and (3) design a research study, use a statistical software package to analyze the data generated from this research study, and appropriately report the conclusions of this research study.

Because this version will be conducted entirely online, it is important for all students to keep up with required readings and assignments. Students are also expected to be active participants in this course. Active participation includes asking and answering questions in assigned discussion groups, posting responses to assignments and discussion questions in discussion groups, and responding to the messages posted by other members of the class. Students will also be expected to use SPSS. A student version of SPSS will be sold with the textbook, but this student version runs on PCs, not on Macs. Any student who uses a Mac may need to complete SPSS work at a computer lab on campus.

Style: 10% Lecture, 60% Discussion. Independent learning activities
Grading: 22% final exam, 21% reports/papers, 22% quizzes, 23% class participation, 12% other evaluation.
Exam Format: multiple choice, true/false, short-answer

EPSY 5261 Introductory Statistical Methods
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231;
Instructor: Beckman, Matthew Donald
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
EPSY 5262 Intermediate Statistical Methods
3 credit(s); prereq 5264 or 5261 or equiv;
Instructor: Everson, Michelle G
Description: This course continues where EPSY 5261 (Introductory Statistical Methods) ends. Together, these two courses provide an alternative to the sequence EPSY 8261-8262. It is assumed that students who are registered in EPSY 5262 have successfully completed EPSY 5261 or its equivalent. By the end of the course, students should be able to: (1) understand the basic ideas and types of experimental design and analysis of variance (ANOVA), (2) run and interpret analyses involving real data using SPSS statistical software, (3) decompose data based on different models, applying algebraic notation, (4) check assumptions for models and select appropriate models for data, and (5) complete an independent project where they design an experiment, gather data, analyze and interpret the data, and write up the results in a paper.
Style: 20% Lecture, 50% Discussion, 30% Small Group Activities. Independent learning activities
Grading: 28% final exam, 28% reports/papers, 34% quizzes, 10% class participation.
Exam Format: Short answer, multiple-choice

EPSY 5271 Becoming a Teacher of Statistics
3 credit(s); prereq 5261 or equiv;
Instructor: Everson, Michelle G
Description: Students taking EPSY 5271 will: (1) Become knowledgeable about current recommendations for teaching introductory statistics at the college level, (2) Learn about the different types of first courses in statistics (e.g., Advanced Placement High School Statistics, Introductory College statistics, Mathematics statistics, and Statistical Literacy courses) and what the key commonalities and differences are between these courses, (3) Read articles by leaders in the national and international statistics community about goals for student learning, the nature of statistical reasoning and thinking, and recommended methods for teaching, (4) Gain experience using state of the art technological tools including statistical software, web applets, and simulation/re-sampling to help students learn statistics, (5) Learn about appropriate ways to assess student learning via performance assessment, student projects, and other assessment formats, (6) Experience and learn about many activities that help students develop understanding of important statistical ideas, and (7) Complete a project that includes the design of a lesson for a course they plan to teach, incorporating the guidelines, materials and methods learned in this class.
Style: 5% Lecture, 40% Discussion, 40% Small Group Activities, 15% Student Presentation.
Grading: 60% reports/papers, 40% special projects.

EPSY 5401 Counseling Procedures
3 credit(s); prereq Upper div student;
Instructor: Romano, John L
Description: Student may contact the instructor or department for information.

EPSY 5451 College Students Today
3 credit(s); Credit will not be granted if credit has been received for: EDPA 5704;
Instructor: Ropers-Huilman, Rebecca Lynn
Description: This course focuses on how college students are affected by issues related to individual development, group identity, institutional actions, or social discourses.
Style: 10% Lecture, 50% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.

EPSY 5604 Transition From School to Work and Community Living for Persons With Special Needs
3 credit(s);
Instructor: Peper, Christine Rae
Description: Student may contact the instructor or department for information.

EPSY 5609 Family-centered Services
A-F only, 2 credit(s);
Instructor: Johnson, LeAnne Denise
Description: This class focuses mainly on graduate students who plan to be teaching reading and writing to deaf and hard of

EPSY 5612 Understanding of Academic Disabilities
A-F only, 3 credit(s);
Instructor: Mahlke, Amy Gerilyn
Description: Student may contact the instructor or department for information.

EPSY 5613 Foundations of Special Education I
A-F only, 3 credit(s); prereq Child development course, 5601 or equiv;
Instructor: Fautsch-Patridge, Terri
Description: Student may contact the instructor or department for information.

EPSY 5617 Foundations of Special Education II
A-F only, 3 credit(s); prereq 5613;
Instructor: Kelley, Mary Beth
Description: Student may contact the instructor or department for information.

EPSY 5618 Behavior Analysis and Classroom Management
3 credit(s);
Instructor: Fautsch-Patridge, Terri
Description: Student may contact the instructor or department for information.

EPSY 5618 Behavior Analysis and Classroom Management
3 credit(s);
Instructor: Moore, Tim
Description: Student may contact the instructor or department for information.

EPSY 5619 Behavior Analysis and Classroom Management
3 credit(s);
Instructor: Tanol, Gizem
Description: Student may contact the instructor or department for information.

EPSY 5618 Specialized Interventions for Students With Disabilities in Reading and Written Language
A-F only, 3 credit(s); prereq Enrollment in [EBD or LD or DD or DHH] or instr consent;
Instructor: Pierce, Becca L.
Description: Student may contact the instructor or department for information.

EPSY 5621 Functional/Basic Academic Interventions in Mental Retardation
A-F only, 3 credit(s); prereq 5613, 5614;
Instructor: Wing, Brad
Description: Student may contact the instructor or department for information.

EPSY 5646 Reading and Writing Practices with Deaf/Hard of Hearing Children
3 credit(s); prereq 5644 or general educ methods in tchg reading and writing skills, or instr consent;
Instructor: Schultz, Mary Hale
Description: This class focuses mainly on graduate students who plan to be teaching reading and writing to deaf and hard of
EPSY 5752 Student Teaching: Learning Disabilities
S-N only, 1-6 credit(s), max credits 10, 10 repeats allowed; prereq instr consent; Instructor: Seifert PhD,Kathy
Description: Student may contact the instructor or department for information.

EPSY 5754 Student Teaching: Social and Emotional Disabilities
A-F only, 1-6 credit(s), max credits 8, 8 repeats allowed; prereq Completion of licensure courses for social and emotional disorders, instr consent;
Instructor: Kelley, Mary Beth
Description: Student may contact the instructor or department for information.

EPSY 5755 Student Teaching: Developmental Disabilities, Mild/Moderate
A-F only, 1-6 credit(s), max credits 6; prereq Completion of all licensure coursework, instr consent;
Instructor: Seifert PhD,Kathy
Description: Student may contact the instructor or department for information.

EPSY 5756 Student Teaching: Developmental Disabilities, Moderate/Severe
A-F only, 1-6 credit(s), max credits 6; prereq Completion of all licensure coursework, instr consent;
Instructor: Seifert PhD,Kathy
Description: Student may contact the instructor or department for information.

EPSY 5757 Practicum in Autism Spectrum Disorder
A-F only, 3 credit(s); prereq 5616, 5661, 5609, one of [5622 or 5644 or SLHS 5606], enrolled in Autism Spectrum Disorder certificate program, instr consent; Instructor: Reichle, Joe E
Description: Student may contact the instructor or department for information.

EPSY 5758 Practicum in Applied Behavior Analysis
A-F only, 3 credit(s); prereq 5616, 5657. Psy 4011, Applied Behavior Analysis Certificate student, instr consent; Instructor: McComas, Jennifer
Description: Student may contact the instructor or department for information.

EPSY 5759 Independent Study in Educational Psychology
A-F only, 1-8 credit(s), max credits 20, 20 repeats allowed; prereq instr consent;
Instructor: STAFF
Description:

EPSY 5814 Seminar: Cognition and Learning
3 credit(s), max credits 9, 3 repeats allowed; Instructor: Varma, Sashank
Description: Mathematical Cognition. Recent research in cognitive science is shedding new light on the long-standing question of how people understand mathematics. This course will provide a review of this research. We will read papers focusing on how adults, children, and non-human primates understand fundamental mathematical concepts such as number, arithmetic, and algebra. The papers will be drawn from psychology, neuroscience, and education, and will span a range of methods and populations. Graduate and advanced undergraduate students with an interest in mathematics are invited to register for the course, regardless of disciplinary background.
University of Minnesota - Course Guide for Twin Cities Campus

EPSY 8114 Seminar: Cognition and Learning
3 credit(s); max credit(s) 9, 3 repeats allowed;
Instructor: Varma, Keisha
Description: In this course, you will examine issues related to technology-enhanced instruction from a learning sciences perspective. We will look at how research in developmental, cognitive and educational psychology informs the way that technology-enhanced support is designed and implemented. We will read research papers concerned with the design and implementation of technology-based innovations. Throughout the semester, students will design and revise a curricular project that effectively integrates technology. Throughout the course, students will work collaboratively to reflect on issues of technology integration, learning and cognition. Each class meeting will include at least 1 hour of work in the computer lab.

EPSY 8117 Writing Empirical Paper and Research/Grant Proposals in Education and Psychology
3 credit(s); prereq instr consent;
Instructor: Landi, Nicole
Description: Student may contact the instructor or department for information.

EPSY 8132 Personality Development and Socialization
3 credit(s); prereq Personality or child psych course;
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

EPSY 8216 Seminar: Research Processes in Psychological Foundations of Education
A-F only, 3 credit(s); prereq [5216, admitted to doctoral program in psych foundations] or instr consent;
Instructor: Tennyson, Robert D
Description: Student may contact the instructor or department for information.

EPSY 8221 Psychological Scaling
3 credit(s); prereq 5221 or equiv, 8261-8262 or equiv;
Instructor: Davison, Mark L
Description: Student may contact the instructor or department for information.

EPSY 8261 Statistical Methods I: Probability and Inference
3 credit(s); prereq 3264 or 5261 or equiv;
Instructor: Zieffler PhD, Andrew S
Description: Student may contact the instructor or department for information.

EPSY 8262 Statistical Methods II: Regression and the General Linear Model
3 credit(s); prereq [8260, 8261] or equiv;
Instructor: Zieffler PhD, Andrew S
Description: Student may contact the instructor or department for information.

Grading: 25% written homework, 75% additional semester exams. The 8 lab assignments allow the student to practice and receive feedback. Together, the labs constitute 25% of the final grade. 75% of the student's final grade is based on the three course exams.

Exam Format: All 3 exams are take-home. Each exam involves the application of statistical concepts and procedures to analyze a data set. Each exam is posted at least one week before the due date.

EPSY 8262 Statistical Methods II: Regression and the General Linear Model
3 credit(s); prereq [8260, 8261] or equiv;
Instructor: Long, Jeffrey D
Description: Student may contact the instructor or department for information.

EPSY 8265 Factor Analysis
3 credit(s); prereq 8262 or instr consent;
Instructor: Davenport Jr, Ernest C
Description: Student may contact the instructor or department for information.

EPSY 8267 Applied Multivariate Analysis
3 credit(s); prereq [8261, 8262] or equiv, familiarity with matrix algebra, knowledge of a computerized statistics package;
Instructor: Davenport Jr, Ernest C
Description: Student may contact the instructor or department for information.

EPSY 8269 Matrix Algebra for Statistical Modeling
2 credit(s); prereq 8262 or equiv;
Instructor: Terwilliger, James S
Description: Student may contact the instructor or department for information.

EPSY 8290 Special Topics: Seminar in Psychological Foundations: Statistical Analysis of Longitudinal Data II
3 credit(s), max credits 15, 15 repeats allowed; prereq instr consent;
Instructor: Long, Jeffrey D
Description: Student may contact the instructor or department for information.

EPSY 8295 Evaluation Problems
1-6 credit(s), max credits 24, 24 repeats allowed; prereq 5243 or EdPA 5501, instr consent;
Instructor: Krueger, Richard A
Description: Student may contact the instructor or department for information.

EPSY 8296 Evaluation Internship
1-9 credit(s), max credits 24, 24 repeats allowed; prereq 5243 or EdPA 5501, instr consent;
Instructor: Krueger, Richard A
Description: Student may contact the instructor or department for information.

EPSY 8403 Social/Cultural Contexts: Counseling and Skills
A-F only, 3 credit(s); prereq Grad ed psy major with CSPP subprog or instr consent;
Instructor: Goh PhD, Michael P
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
EPSY 8404 Group Counseling: Theory, Applications, and Skills
A-F only, 3 credit(s); prereq Ed psy MA or PhD student with CSPP subprog or instr consent;
Instructor: Romano, John L
Description: Student may contact the instructor or department for information.

EPSY 8407 Assessing and Counseling Clients With Psychological Disorders
A-F only, 4 credit(s); prereq CSPP PhD or MA student or instr consent;
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

EPSY 8411 Advanced Counseling Research
A-F only, 4 credit(s); prereq Ed psy PhD student with CSPP subprog or instr consent;
Instructor: Hummel, Thomas J
Description: Student may contact the instructor or department for information.

EPSY 8413 Personality Assessment of Adolescents and Adults
A-F only, 3 credit(s); prereq [Psy 5604H or Psy 8111 or Psy 8112], doctoral student, instr consent;
Instructor: Turner, Sherri L
Description: Student may contact the instructor or department for information.

EPSY 8431 Master’s Research Seminar: CSPP MA student with CSPP subprog or instr consent;
Instructor: Hummel, Thomas J
Description: Student may contact the instructor or department for information.

EPSY 8435 Organization of School Counseling Comprehensive Programs
A-F only, 3-6 credit(s), max credits 6; prereq CSPP grad student in school counselor prog or instr consent;
Instructor: Wahl, Kay Herting
Description: Student may contact the instructor or department for information.

EPSY 8504 Counseling Practicum II
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq 8503 or instr consent;
Instructor: Skovholt, Thomas M
Description: Student may contact the instructor or department for information.

EPSY 8504 Counseling Practicum II
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq 8503 or instr consent;
Instructor: Wahl, Kay Herting
Description: Student may contact the instructor or department for information.

EPSY 8504 Counseling Practicum II
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq 8503 or instr consent;
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

EPSY 8509 Supervision Practicum: CSPP
2 credit(s); prereq [Ed psy PhD student with CSPP subprog] or instr consent;
Instructor: Skovholt, Thomas M
Description: Student may contact the instructor or department for information.

EPSY 8512 Internship: CSPP
S-N only, 1-12 credit(s), max credits 12, 12 repeats allowed; prereq EdPsy PhD student with CSPP subprog;
Instructor: Goh PhD, Michael P.
Description: Student may contact the instructor or department for information.

EPSY 8522 Counseling Practicum: Advanced
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq [Grad EPSy PhD student with CSPP subprog] or instr consent; instructor consent required after 2 repeats;
Instructor: Skovholt, Thomas M
Description: Student may contact the instructor or department for information.

EPSY 8600 Special Topics: Special Education Issues: Functional Behavior Assessment
3 credit(s), max credits 9, 9 repeats allowed;
Instructor: McComas, Jennifer
Description: Student may contact the instructor or department for information.

EPSY 8694 Research in Special Education
3 credit(s);
Instructor: McConnell PhD, Scott Rushton
Description: Student may contact the instructor or department for information.

EPSY 8702 Doctoral Core Seminar: Special Education II
A-F only, 3 credit(s), max credits 6; prereq 8701 or instr consent;
Instructor: Burns, Matthew K
Description: Student may contact the instructor or department for information.

EPSY 8800 Special Topics in School Psychology: Responding to Crises in the Schools
1 credit(s), max credits 9, 9 repeats allowed;
Instructor: Burns, Matthew K
Description: Student may contact the instructor or department for information.

EPSY 8812 Assessment in School Psychology II: Intellectual and Social-Emotional Domains
A-F only, 3 credit(s); prereq Grad ed psy major with school psy subprog or instr consent;
Instructor: Hansen, Annie
Description: Student may contact the instructor or department for information.

EPSY 8813 Assessment Practicum in School Psychology
A-F only, 2 credit(s), max credits 4; prereq 8821, grad ed psy major with school psy subprog or instr consent, concurrent enrollment 8811 or concurrent enrollment 8812;
Instructor: Hansen, Annie
Description: Student may contact the instructor or department for information.

EPSY 8815 Systemic Intervention and Consultation
A-F only, 3 credit(s);
Instructor: Hansen, Annie
Description: Student may contact the instructor or department for information.

EPSY 8818 Intervention Practicum in School Psychology
A-F only, 1 credit(s), max credits 2; prereq Grad ed psy major with school psy subprog, concurrent enrollment 8815 or concurrent enrollment 8816;
Instructor: Hansen, Annie
Description: Student may contact the instructor or department for information.
EPSY 8822 Research in School Psychology  
A-F only, 3 credit(s); max credits 6; prereq [[[[8860, 8861, 5616]] or equiv], grad ed psy major with school psy subprog] or instr consent ;  
Instructor: Ysseldyke, James E  
Description: Student may contact the instructor or department for information.

EPSY 8823 Ethics and Professional Standards in School Psychology  
A-F only, 3 credit(s); prereq 8821;  
Instructor: Ysseldyke, James E  
Description: Student may contact the instructor or department for information.

EPSY 8831 Practicum: School Psychological Services  
1-3 credit(s), max credits 6, 6 repeats allowed; prereq Grad ed psy major with school psy subprog;  
Instructor: Hansen, Annie  
Description: Student may contact the instructor or department for information.

EPSY 8832 Clinical/Community Practice in School Psychology  
1-3 credit(s), max credits 6, 6 repeats allowed; prereq Grad ed psy major with school psy subprog;  
Instructor: Hansen, Annie  
Description: Student may contact the instructor or department for information.

EPSY 8805 History and Systems of Psychology: Landmark Issues in Educational Psychology  
3 credit(s); prereq Ed psy PhD student;  
Instructor: McConnell PhD, Scott Rushton  
Description: Student may contact the instructor or department for information.

Electrical and Computer Engineering  
4-178 EE/CSci Building

EE 1 Refresher Course for Electrical Engineers  
A-F only, 0 credit(s); prereq [BSEE or BEE], pass EIT exam, four yrs elec eng experience;  
Instructor: Nordell, Daniel Edwin  
Description: This course is a review of electrical engineering fundamentals required to pass the National Council of Engineering Examiners Principles and Practice Examination in the discipline of Electrical Engineering. It is designed to aid the electrical engineer in preparation for the PE examination by presenting an organized review of material ordinarily contained in a college electrical engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisites: Completion of the Fundamentals of Engineering exam Electrical Engineering or equivalent degree 4 years electrical engineering experience  
Style: 75% Lecture, 25% Discussion.  
Grading: 100% successful completion of the FE exam

EE 2001 Introduction to Electronic and Electrical Circuits  
3 credit(s); prereq Phys 1302, Concurrent registration is required (or allowed) in is required in Math 2243, 2273, 2573;  
Instructor: Tran, Nang  
Description: Student may contact the instructor or department for information.

EE 2002 Introductory Circuits and Electronics Laboratory  
1 credit(s); prereq 2001 or Concurrent registration is required (or allowed) in 2001;  
Instructor: Tran, Nang  
Description: Student may contact the instructor or department for information.

EE 2006 Introductory Circuits Laboratory  
0.5 credit(s);  
Instructor: Tran, Nang  
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design  
4 credit(s); prereq Math [1272 or 1372 or 1572], concurrent registration in 0301;  
Instructor: Riedel, Marc  
Description: Student may contact the instructor or department for information.

EE 2361 Introduction to Microcontrollers  
4 credit(s); prereq [1301 or CSCI 1113 or [2301, CSCI 1901], Concurrent registration is required (or allowed) in 0361;  
Instructor: STAFF  
Description: Computer organization, assembly language programming, arithmetic/logical operations, parallel/serial
### University of Minnesota - Course Guide for Twin Cities Campus  
Spring 2009

## Schedule

**Course Guide at** [http://onestop.umn.edu](http://onestop.umn.edu). **IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

### EE 3005 Fundamentals of Electrical Engineering
- **Credit:** 4 credits; **Prereq:** Math 2243, Phys 1302; not for EE majors; **Instructor:** Mahmoodi PhD,Abolghassem B
- **Description:** Student may contact the instructor or department for information.

### EE 3006 Fundamentals of Electrical Engineering Laboratory I
- **Credit:** 1 credit; **Prereq:** Concurrent enrollment in 3005 is allowed but not required; **Instructor:** Mahmoodi PhD,Abolghassem B
- **Description:** Student may contact the instructor or department for information.

### EE 3015 Signals and Systems
- **Credit:** 3 credits; **Prereq:** EE 3101, IT or dept consent; **Instructor:** Sainati,Robert A
- **Description:** Student may contact the instructor or department for information.

### EE 3025 Statistical Methods in Electrical and Computer Engineering
- **Credit:** 3 credits; **Prereq:** EE 3105, IT or instr approval; **Instructor:** Mahmoodi PhD,Abolghassem B
- **Description:** Student may contact the instructor or department for information.

### EE 3041 Industrial Assignment I
- **Credit:** 2 credits; **Prereq:** EE or CompE upper div), enrolled in ECE co-op program; **Instructor:** Higman,Ted King
- **Description:** Student may contact the instructor or department for information.

### EE 3101 Circuits and Electronics Laboratory I
- **Credit:** 2 credits; **Prereq:** EE 3115 or Concurrent registration is required (or allowed) in 3115, IT or dept consent; **Instructor:** Kinney,Larry L
- **Description:** Student may contact the instructor or department for information.

### EE 3101 Circuits and Electronics Laboratory II
- **Credit:** 2 credits; **Prereq:** EE 3110 or IT or dept consent; **Instructor:** Robbins,William P
- **Description:** Experiments in circuits and electronics; team design project.

### EE 3115 Analog and Digital Electronics
- **Credit:** 4 credits; **Prereq:** Concurrent registration is required (or allowed) in 3115, IT or dept consent; **Instructor:** Higman,Ted King
- **Description:** Student may contact the instructor or department for information.

### EE 3161 Semiconductor Devices
- **Credit:** 3 credits; **Prereq:** EE 3102, Phys 2303 or Chem 1022; **Instructor:** Oh,Sang-Hyun
- **Description:** Student may contact the instructor or department for information.

### EE 3601 Transmission Lines, Fields, and Waves
- **Credit:** 3 credits; **Prereq:** EE 2361, Phys 1302 or Phys 2303; **Instructor:** Robbins,William P
- **Description:** Student may contact the instructor or department for information.

### EE 4043W Industrial Assignment II
- **Credit:** 2 credits; **Prereq:** EE 3041; **Instructor:** Higman,Ted King
- **Description:** Student may contact the instructor or department for information.

### EE 4044 Industrial Assignment III
- **Credit:** 2 credits; **Prereq:** EE 3043W; **Instructor:** Higman,Ted King
- **Description:** Student may contact the instructor or department for information.

### EE 4111 Advanced Analog Electronics Design
- **Credit:** 4 credits; **Prereq:** EE 3105, 3115; **Instructor:** Higman,Ted King
- **Description:** Student may contact the instructor or department for information.

### EE 4233 State Space Control System Design
- **Credit:** 3 credits; **Prereq:** EE 3105, upper div IT or instr consent; no EE or CompE grad cr; **Instructor:** Georgiou,Tryphon T
- **Description:** Style: 100% Lecture. Grading: 50% Lecture, 15% Discussion, 35% Laboratory.

### EE 4237 State Space Control Laboratory
- **Credit:** 1 credit; **Prereq:** EE 4233 or concurrent enrollment in 4233; no cr for EE or CompE grad students; **Instructor:** Georgiou,Tryphon T
- **Description:** Style: 100% Laboratory. Grading: 100% Laboratory.

### EE 4341 Microprocessor and Microcontroller System Design
- **Credit:** 4 credits; **Prereq:** EE 3101, upper div IT; no EE or CompE grad cr; **Instructor:** Posbergh,Thomas Alfred
- **Description:** Student may contact the instructor or department for information.

### EE 4363 Computer Architecture and Machine Organization
- **Credit:** 4 credits; **Prereq:** EE 3101, upper div IT; no EE or CompE grad cr; **Instructor:** O'Keefe,Matthew Thomas
- **Description:** Student may contact the instructor or department for information.

### EE 4389W Introduction to Empirical Inference and Soft Computing
- **Credit:** 3 credits; **Prereq:** STAT 3022; computer programming or MATLAB or similar environment is recommended for ECE students; Meets CLE req of Writing Intensive; **Instructor:** Cherkassky,Vladimir S
- **Description:** EE 4389W SPRING 2008 INTRODUCTION to...
### EMPIRICAL INFERENCE and SOFT COMPUTING

**Instructor:** Vladimir Cherkassky  
**Course:** EE/CSci 6-111; 612-625-9597; cherkass@ece.umn.edu  
**Office Hours:** Tue, Thur, 11:15-12:30 and 2-4pm  
**Required:** EE 3015 or concurrent registration is required.  
**Recommended:** EE 3015, 3115, 3102, 3601 assigned prior to 4702.  
**Description:** This course covers the mathematical theories underlying empirical learning and computing, which are central to many modern areas of science and engineering. The course uses statistical learning theory as the foundation for understanding generalization and covers methods for data analysis and learning, including pattern recognition, classification, inference and modeling. The goal is to provide students with a working knowledge of the fundamental concepts and principles underlying empirical learning and computing.  
**Prerequisite:** EE 3015, 3115, 3102, 3601  
**Credit:** 4 credits  
**Evaluation:**  
- Homework assignments 50%  
- Midterm exam 20%  
- Final exam 30%  
**Textbook:** *Statistical Learning Theory* (Vapnik, 1998)  
**Software:** MATLAB or similar environment is recommended (for ECE students but not required). Course Material: Lecture notes + book, chapters + selected papers (will be posted on the web page). See ECE department homepage. 

### EE 4607 Wireless Hardware System Design

**Instructor:** Gopinath, Anand  
**Prerequisite:** [3015, 3115, 3601, IT student] or dept consent  
**Credit:** 3 credits  
**Description:** [description not provided]  
**Instructor:** Gopinath, Anand  
**Description:** Student may contact the instructor or department for information.

### EE 4703 Electric Drives Laboratory

**Instructor:** Imbertson, Paul Jay  
**Prerequisite:** [4701 or Concurrent registration is required]  
**Credit:** 1 credit  
**Description:** [description not provided]  
**Instructor:** Imbertson, Paul Jay  
**Description:** Student may contact the instructor or department for information.

### EE 4721 Introduction to Power System Analysis

**Instructor:** Mohan, Ned  
**Prerequisite:** [4721 or Concurrent registration is required]  
**Credit:** 3 credits  
**Description:** [description not provided]  
**Instructor:** Mohan, Ned  
**Description:** Student may contact the instructor or department for information.

### EE 4722 Power System Analysis Laboratory

**Instructor:** Mohan, Ned  
**Prerequisite:** [4721 or Concurrent registration is required]  
**Credit:** 1 credit  
**Description:** [description not provided]  
**Instructor:** Mohan, Ned  
**Description:** Student may contact the instructor or department for information.

### EE 4940 Special Topics in Electrical and Computer Engineering

**Instructor:** STAFF  
**Prerequisite:** [IT student]  
**Credit:** 3-4 credits  
**Description:** [description not provided]  
**Instructor:** STAFF  
**Description:** Student may contact the instructor or department for information.

### EE 5302 VLSI Design Automation II

**Instructor:** Balas, Gary John  
**Prerequisite:** [5301, IT student]  
**Credit:** 3 credits  
**Description:** [description not provided]  
**Instructor:** Balas, Gary John  
**Description:** Student may contact the instructor or department for information.
Instructor: Sapatnekar, Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 5324 VLSI Design II
3 credit(s); prereq [5323, IT grad student] or dept consent ;
Instructor: Kim, Chris H.
Description: Student may contact the instructor or department for information.

EE 5327 VLSI Design Laboratory
3 credit(s); prereq [4301, [5323 or Concurrent registration is required (or allowed) in 5323], IT grad student] or dept consent ;
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 5542 Adaptive Digital Signal Processing
3 credit(s); prereq [4541, 5531, IT grad student] or dept consent ;
Instructor: Ebinni, Emad S
Description: Student may contact the instructor or department for information.

EE 5545 Digital Signal Processing Design
3 credit(s); prereq [4541, IT grad student] or dept consent ;
Instructor: Ebinni, Emad S
Description: Student may contact the instructor or department for information.

EE 5561 Image Processing and Applications
3 credit(s); prereq [4541, 5581, IT grad student] or instr consent ;
Instructor: Sapiro, Guillermo R
Description: Student may contact the instructor or department for information.

EE 5601 Introduction to RF/Microwave Engineering
3 credit(s); prereq [3601, IT grad student] or dept consent ;
Instructor: Franklin, Rhonda R.
Description: Course focuses on use and performance of lumped circuit elements at RF frequencies as well as application of transmission line theory to planar and non-planar waveguiding structures. Network analysis and synthesis techniques are discribed for lumped and passive elements. Design topics include lumped circuit elements, resonators, power dividers, directional couplers, and filters.
Style: 100% Lecture.
Grading: 30% midterm, 40% final exam, 10% special projects, 20% problem solving.
Exam Format: Problem-solving

EE 5611 Plasma-Aided Manufacturing
A-F only, 4 credit(s); prereq [[MSE 3321, ME 3322] or equiv], [upper div IT or grad student] or dept consent ; Credit will not be granted if credit has been received for: ME 5361;
Instructor: Heberlein, Joachim Viktor R
Description: Student may contact the instructor or department for information.

EE 5613 RF/Microwave Circuit Design Laboratory
2 credit(s); prereq [[5601 or Concurrent registration is required (or allowed) in 5601], IT grad student] or dept consent ;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 5621 Physical Optics
3 credit(s); prereq [3615, IT grad student] or dept consent ;
Instructor: Leger, James Robert
Description: This course is an introduction to Fourier analysis of optical systems, with applications to spatial filtering, optical information processing, magnetic resonance imaging, holography and coherence theory. Linear systems theory is used to describe diffraction (Fresnel and Fraunhofer), optical system resolution and aberrations. Emphasis is placed on the similarities and differences in analysis of optical and electrical systems. Current topics of special interest include computer generated holograms, diffractive optical elements, computer tomography and optical coherence tomography.
Style: 90% Lecture, 10% Discussion.
Grading: 40% midterm, 40% final exam, 20% problem solving, 2 mid-term exam
Exam Format: Problem solving, patterned after homework, emphasizing physical concepts

EE 5622 Physical Optics Laboratory
1 credit(s); prereq [5621 or Concurrent registration is required (or allowed) in 5621], IT grad student] or dept consent ;
Instructor: Leger, James Robert
Description: This course is designed to give a senior or graduate student a working knowledge of experimental optical techniques. It consists of a series of laboratory exercises that demonstrate topics in interferometry, diffraction theory, imaging, frequency domain descriptions of optical systems, coherence, speckle, and fiber optics. The laboratory equipment is highly automated via CCD cameras and computers, simplifying data collection and producing improved accuracy. Emphasis is placed on optical techniques that can be used in a wide variety of experimental situations. The student is asked to keep a professional laboratory journal, similar to what would be used in industry. No other written work is required. The course grade is assigned based on this journal, an assessment of laboratory performance, and a final test. The final test can be either written or individual oral, based on a vote from the students attending. Knowledge of basic optical systems and Fourier analysis is helpful.
Style: 100% Laboratory.
Grading: 33% final exam, 33% laboratory evaluation, 33% other evaluation. Lab book
Exam Format: Written or oral, based on student vote

EE 5741 Advanced Power Electronics
3 credit(s); prereq IT grad student] or dept consent ;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
Instructor: Ernie, Douglas
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
Instructor: Rennesolet, Charles Leon
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
Instructor: Gopinath, Anand
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Moon,Jaekyun
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Wollenberg,Bruce F
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Posbergh,Thomas Alfred
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Parihi,Keshab K.
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Harjani,Ramesh
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Cohen,Philip I
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Ruden,P Paul
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Georgiou,Tryphon T
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Stadler,Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Higman,Ted King
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Kaveh,Mostafa
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Lilja,David J
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Mohan,Ned
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Talghader,Joseph John
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Cherkassky,Vladimir S
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Holte,James Edward
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Campbell,Stephen A
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Hubel,Allison
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent;
Instructor: Kinney,Larry L
Description: Student may contact the instructor or department for information.
for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Victora, Randall H
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Kiehl, Richard
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Luo, Zhi-Quan
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Amin, Massoud
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Kim, Chris H.
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Jindal, Nihar
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student, instr consent ;
Instructor: Kim, Chris H.
Description: Student may contact the instructor or department for information.
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed; prereq Grad student, instr consent; Instructor: Oh,Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed; prereq Grad student, instr consent; Instructor: Yoon,Euisik
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 repeats allowed; prereq Grad student, instr consent; Instructor: salapaka,murti v
Description: Student may contact the instructor or department for information.

EE 8161 Physics of Semiconductors
3 credit(s); prereq instr consent; Instructor: Ruden,P Paul
Description: Student may contact the instructor or department for information.

EE 8215 Nonlinear Systems
3 credit(s); prereq instr consent; Instructor: Balas,Gary John
Description: Student may contact the instructor or department for information.

EE 8367 Parallel Computer Organization
3 credit(s); prereq 5364 or CSci 5204; Credit will not be granted if credit has been received for: CSCI 8205; Instructor: Zhai,Antonia Bingheng
Description: Student may contact the instructor or department for information.

EE 8370 Computer Aided Design Seminar
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [EE or CompE or CSci] grad major, instr consent; Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8500 Seminar: Communications
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; Instructor: Jindal,Nihar
Description: Student may contact the instructor or department for information.

EE 8581 Detection and Estimation Theory
3 credit(s); prereq 5531 or instr consent; Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8620 Advanced Topics in Magnetics
1-3 credit(s), max credits 12, 4 repeats allowed; prereq 5653 or instr consent; Instructor: Wang,Jianping
Description: Student may contact the instructor or department for information.

EE 8660 Seminar: Magnetics
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; Instructor: Wang,Jianping
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: imberson,Paul Jay
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Ernie,Douglas
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Mounes-Toussi,Farnaz
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Rennolet,Charles Leon
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Ottesen,Hal
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Gopinath,Anand
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Mounes-Toussi,Farnaz
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Moon,Jaekyun
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Wolfenstein,Bruce F
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Ernie,Douglas
Description: Student may contact the instructor or department for information.
EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Parhi,Keshab K.  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Mohan,Ned  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Talghader,Joseph John  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Holte,James Edward  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Campbell,Stephen A  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Hubel,Allison  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Kinney,Larry L  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Kieffer,John C  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Robbins,William P  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Sobelman,Gerald Edward  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Leger,James Robert  
Description: Student may contact the instructor or department  
for information.

EE 8940 Special Investigations  
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr  
[in may be repeated for cr]; IT grad student or instr consent;  
Instructor: Franklin,Rhonda R.  
Description: Student may contact the instructor or department  
for information.
EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Jindal, Nihar
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Kim, Chris H.
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 repeat allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Imberton, Paul Jay
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Ruden, P Paul
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Stadler, Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Kaveh, Mostafa
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Talghader, Joseph John
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Holte, James Edward
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Campbell, Stephen A
Description: Student may contact the instructor or department for information.
EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Victora, Randall H
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Salapaka, Murti V
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Yoon, Euisik
Description: Student may contact the instructor or department for information.
EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Ernie, Douglas
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Mounes-Toussi, Farnaz
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Rennole, Charles Leon
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Gopinath, Anand
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Tewfik, Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Sapin, Guillermo R
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Sapatnekar, Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Moon, Jaekyun
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Wollenberg, Bruce F
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Posbergh, Thomas Alfred
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Mounes-Toussi, Farnaz
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Ruden, P Paul
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Stadler, Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kaveh, Mostafa
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Lilja, David J
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Parhi, Keshab K.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Harjani, Ramesh
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Parhi, Keshab K.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Harjani, Ramesh
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Parhi, Keshab K.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Harjani, Ramesh
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Parhi, Keshab K.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Harjani, Ramesh
Description: Student may contact the instructor or department for information.
Instructor: Talghader, Joseph John
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kiehl, Richard
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kiefler, John C
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Holte, James Edward
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kiehl, Richard
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Luo, Zhi-Quan
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Amin, Massoud
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Robemlitis, Stergios
Description: Student may contact the instructor or department for information.
EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: He,Bin
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Jindal,Nihar
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kim,Chris H.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Jovanovic,Mihailo
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Riedel,Marc
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Oh,Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Yoon,Euisik
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: salapaka,murti v
Description: Student may contact the instructor or department for information.

EE 8980 Graduate Seminar II
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;
Instructor: Ebbini,Emad S
Description: Student may contact the instructor or department for information.

Emergency Health Services
20 Classroom Office Building

ENDO 5309 Advanced Clinical Endodontics
A-F only, 1-6 credit(s), max credits 6; prereq 5308;
Instructor: Baisden,Michael Kenneth
Description: Student may contact the instructor or department for information.

ENDO 5313 Advanced Endodontic Emergency
ENDO 5316 Advanced Endodontic Emergency  
S-N only, 1 credit(s); prereq 5315;  
Instructor: Bowles, Walter Ray  
Description: Student may contact the instructor or department for information.

ENDO 5330 Review of Cases  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq 5329;  
Instructor: McClanahan, Scott B  
Description: Student may contact the instructor or department for information.

ENDO 5332 Review of cases  
A-F only, 1 credit(s); prereq dept consent;  
Instructor: McClanahan, Scott B  
Description: Student may contact the instructor or department for information.

ENDO 5600 Endodontic Histopathology  
S-N only, 1 credit(s), max credits 2, 1 repeat allowed;  
Instructor: Edmunds, Robert Sprague  
Description: Student may contact the instructor or department for information.

ENDO 8005 Research in Endodontics  
1-2 credit(s), max credits 2, 1 repeat allowed; prereq dept consent;  
Instructor: Bowles, Walter Ray  
Description: Student may contact the instructor or department for information.

ENDO 8313 Literature Review  
A-F only, 2 credit(s); prereq 8312;  
Instructor: Baisden, Michael Kenneth  
Description: Student may contact the instructor or department for information.

ENDO 8323 Advanced Endodontic Lecture  
A-F only, 1 credit(s); prereq 8322;  
Instructor: Bowles, Walter Ray  
Description: Student may contact the instructor or department for information.

ESL 111 Beginning Grammar  
S-N only, 0 credit(s), 4 repeats allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
Description: This course focuses on developing fluency and accuracy, language for specific functions, communication strategies, standard forms of organization for academic lectures, and understanding natural conversational speech.  
Style: 20% Lecture, 65% Discussion, 15% Laboratory.  
Grading: 25% quizzes, 10% class participation, 10% laboratory evaluation, 55% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 121 Beginning Reading and Composition  
S-N only, 0 credit(s), max credits 10, 4 repeats allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
Description: This course focuses on reading passages of limited difficulty, focusing on main ideas, vocabulary development, reading speed, and skimming and scanning skills. Writing focuses on the fundamentals of spelling, punctuation, sentences and organization. Writing exercises and free writing are used.  
Style: 10% Lecture, 50% Discussion. Conferencing with instructor, class work  
Grading: 50% reports/papers, 10% special projects, 10% quizzes, 10% class participation, 15% laboratory evaluation.  
Exam Format: Short answer

ESL 181 Beginning Integrated English  
S-N only, 0 credit(s), 3 repeats allowed; prereq Nonnative English speaker;  
Instructor: Liptak, Christine Michelle  
Description: This course focuses on increasing complexity in oral and written communication. Students practice speaking and writing in English with increased speed. Vocabulary is developed through the study of word formation and use of the dictionary. Writing includes fundamentals, organization, and writing as a process.  
Style: 20% Lecture, 70% Discussion, 10% Laboratory.  
Grading: 30% quizzes, 15% class participation, 10% laboratory evaluation, 45% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 193 Pronunciation  
S-N only, 0 credit(s), 4 repeats allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
Description: This course focuses on increasing complexity in oral and written communication. Students practice speaking and writing in English with increased speed. Vocabulary is developed through the study of word formation and use of the dictionary. Writing includes fundamentals, organization, and writing as a process.  
Style: 20% Lecture, 70% Discussion, 10% Laboratory.  
Grading: 30% quizzes, 15% class participation, 10% laboratory evaluation, 45% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 411 Intermediate Grammar  
S-N only, 0 credit(s), 4 repeats allowed; prereq Non-native speaker of English;  
Instructor: STAFF  
Description: This course focuses on developing fluency and accuracy, language for specific functions, communication strategies, standard forms of organization for academic lectures, and understanding natural conversational speech.  
Style: 20% Lecture, 65% Discussion, 15% Laboratory.  
Grading: 25% quizzes, 15% class participation, 10% laboratory evaluation, 55% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 421 Intermediate Reading and Composition  
S-N only, 0 credit(s), 4 repeats allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
Description: This course focuses on developing fluency and accuracy, language for specific functions, communication strategies, standard forms of organization for academic lectures, and understanding natural conversational speech.  
Style: 20% Lecture, 65% Discussion, 15% Laboratory.  
Grading: 25% quizzes, 15% class participation, 10% laboratory evaluation, 55% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 431 Intermediate Oral Skills  
S-N only, 0 credit(s), 4 repeats allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
Description: This course focuses on developing fluency and accuracy, language for specific functions, communication strategies, standard forms of organization for academic lectures, and understanding natural conversational speech.  
Style: 20% Lecture, 65% Discussion, 15% Laboratory.  
Grading: 25% quizzes, 15% class participation, 10% laboratory evaluation, 55% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 600 Business English  
S-N only, 0 credit(s); prereq Non-native speaker of English; see Minnesota English Language Program;  
Instructor: STAFF  
Description: This course focuses on developing fluency and accuracy, language for specific functions, communication strategies, standard forms of organization for academic lectures, and understanding natural conversational speech.  
Style: 20% Lecture, 65% Discussion, 15% Laboratory.  
Grading: 25% quizzes, 15% class participation, 10% laboratory evaluation, 55% other evaluation. Homework, coursework  
Exam Format: Short answer

ESL 611 Advanced Grammar  
S-N only, 0 credit(s); prereq Nonnative English speaker;
ESL 621 Advanced Reading Composition: The Written Word
S-N only, 0 credit(s), 4 repeats allowed; prereq Nonnative English speaker;
Instructor: STAFF
Description: Students focus on reading efficiency, including strategy development, as well as vocabulary skill building. Some focus is on using reading to support academic writing.
Style: 25% Lecture, 50% Discussion. In class work time, conferencing with instructor.
Grading: 50% reports/papers, 15% quizzes, 25% class participation.
Exam Format: Multiple choice & essay

ESL 631 Advanced Oral Skills
S-N only, 0 credit(s), 4 repeats allowed; prereq Nonnative English speaker;
Instructor: Foye, Carol Babbs
Description: Students focus on the writing process and reading selections and on increasing reading efficiency. In reading, the course focuses on comprehension of scholarly material. In writing, the course focuses on using reading to support academic writing.
Style: 25% Lecture, 50% Discussion. In class work time, conferencing with instructor.
Grading: 50% reports/papers, 15% quizzes, 25% class participation.
Exam Format: Multiple choice & essay

ESL 701 Topics in American Culture
S-N only, 0 credit(s); prereq Nonnative English speaker;
Instructor: STAFF
Description: Students may contact the instructor or department for information.

ESL 701 Topics in American Culture
S-N only, 0 credit(s); prereq Nonnative English speaker;
Instructor: Tichich, Emily Ruth
Description: Students may contact the instructor or department for information.

ESL 711 Grammar Through Writing
S-N only, 0 credit(s), 4 repeats allowed; prereq Non-native speaker of English;
Instructor: STAFF
Description: This course focuses on production of grammatically sophisticated structures in writing. Students edit their assignments.
Style: 25% Lecture, 65% Discussion, 10% Laboratory.
Grading: 15% final exam, 25% reports/papers, 25% quizzes, 35% other evaluation. Homework
Exam Format: Variety

ESL 721 High Advanced Reading/Composition
S-N only, 0 credit(s), 4 repeats allowed; prereq Non-native speaker of English;
Instructor: STAFF
Description: Students work on reading for academic purposes. In reading, the course focuses on comprehension of scholarly reading selections and on increasing reading efficiency. In writing, this course focuses on the writing process and academic-style assignments.
Style: 25% Lecture, 50% Discussion. In-class writings, conferencing with the instructor
Grading: 60% reports/papers, 20% quizzes, 20% class participation.
Exam Format: Variety

ESL 731 High Advanced Oral Skills
S-N only, 0 credit(s), 4 repeats allowed; prereq Non-native speaker of English;
Instructor: Ruesch, Alyssa Marie
Description: Students may contact the instructor or department for information.
ENGL 1001W Introduction to Literature: Poetry, Drama, Narrative
4 credit(s); prerequisite credit will not be granted if credit already received for: ENGL 1001, 1002; Credit will not be granted if credit has been received for: ENGL 1001V; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Robinette, Nick
Description: This class will introduce students to the study of literature at the college level. It will cover poetry, drama, and fiction, with attention to both the formal features of the literature and critical concerns such as gender and race. As this is a writing intensive course, special attention will be paid to the development of writing skills.

ENGL 1181W Introduction to Shakespeare
4 credit(s); prerequisite credit will not be granted if credit already received for: ENGL 1181, 1182; Credit will not be granted if credit has been received for: ENGL 1181V; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Hughes, Joe J
Description: Student may contact the instructor or department for information.

ENGL 1201W Contemporary American Literature
4 credit(s); prerequisite credit will not be granted if credit already received for: ENGL 1201, 1202; Credit will not be granted if credit has been received for: ENGL 1201V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This writing intensive course for undergraduate students will introduce you to a variety of American experiences as they are represented in different literary genres and across a period spanning from the Civil War to the present day. Because we will focus on the basics of writing literary analysis (What is a “close reading”? What is the difference between a narrator and an author?), our treatment of American literary history will not be comprehensive. Instead we will consider broad topics like identity, place, and history and discuss several plays, poems and stories in the context of these topics. We will read authors like Russell Banks, Gwendolyn Brooks, Arthur Miller, Toni Morrison, Allen Tate, Mark Twain, and Wendy Wasserstein, among others.

ENGL 1401W Introduction to “Third World” Literatures in English
4 credit(s); prerequisite credit will not be granted if credit already received for: ENGL 1401, 1402; Credit will not be granted if credit has been received for: ENGL 1401V; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Colonialism, emigration, economics, war, famine, and slavery have worked in combination to make English a language spoken in almost every region of the world. The legacy of these forces is an international Anglophone literature that addresses issues such as displacement and difference, representation, poverty, nationalism, syncretism, and the fight for freedom. The voices that speak to these issues are varied and impressive and students will engage closely and critically with texts of multiple genres from Anglophone Africa, South Asia, and the Caribbean, discovering how the tools of oppression can be used strategically to dismantle the “master’s” house and build other houses in its stead. This course will introduce questions raised by the interaction of the “First?” and “Third?” worlds and create, inevitably, questions about history, politics, social science, and how language operates in the so-called “Third World.”

ENGL 1501W Literature of Public Life
A-F only, 4 credit(s); prerequisite credit will not be granted if credit already received for: ENGL 1501; Meets CLE req of Citizenship/Cultural Diversity/Global/Racial/Cultural Studies Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: How has American literature addressed what it means to be a citizen? English 1501 examines literature written with the intent to leave an impression: works that have stunned, mobilized, stimulated, and galvanized the American public. The course is dialectical, setting diverse works against one another to form a dialogue that extends across chronological, geographic, and racial boundaries. Literature is defined broadly to include novels, speeches, essays, testimonies, sermons, plays, music, photography, and film. Recent readings have included Uncle Tom’s Cabin, Maggie: A Girl of the Streets, The Souls of Black Folk, Twilight: Los Angeles, 1992, and Nickel and Dimed: On (Not) Getting By in America. This course doesn’t sit on the shelf: it will ask students to examine and engage with the world around them.

ENGL 1701 Modern Fiction
4 credit(s); Credit will not be granted if credit has been received for: ENGL 1701H; Meets CLE req of Literature Core;
Instructor: STAFF
Description: English 1701 provides an introduction to short stories and novels written after 1900, both in English originally, and in translation. During this time period, fascinating writers have graced the literary scene, including John Cheever, Ernest Hemingway, Franz Kafka, William Faulkner, Zora Neale Hurston, and James Baldwin. These are among the authors students are likely to study in Modern Fiction. Generally, the course is based around four to five novels and several short stories. This allows for slightly more time to be spent within each work than is often granted in broad survey courses. Because of the in-depth nature of this study, students learn to identify and analyze such elements of fiction as theme, genre, structure, form, language, and context.

ENGL 3001V Honors: Textual Analysis, Methods
A-F only, 4 credit(s); prerequisite honors, [English major or minor or approved BIS or IDIM program with English area] credit will not be granted if credit already received for: EngL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001V; Meets CLE req of Writing Intensive;
Instructor: Ismail, Qadri M
Description: Student may contact the instructor or department for information.

ENGL 311W Textual Analysis: Methods
A-F only, 4 credit(s); prerequisite English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001V; Meets CLE req of Writing Intensive;
Instructor: Johnson McGarry PhD, Elizabeth M
Description: Student may contact the instructor or department for information.

ENGL 3001W Textual Analysis: Methods
A-F only, 4 credit(s); prerequisite English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001V; Meets CLE req of Writing Intensive;
Instructor: Farber, Lianna
Description: This class introduces students to basic techniques of literary analysis by presenting straightforward approaches to some of the most powerful forms of English literature. We begin with the poetry of the self, discussing questions to ask of such poems and looking at the self and its context. We ask, who are these people? where are they? who have graced the literary scene, including John Cheever, Ernest Hemingway, Franz Kafka, William Faulkner, Zora Neale Hurston, and James Baldwin. These are among the authors students are likely to study in Modern Fiction. Generally, the course is based around four to five novels and several short stories. This allows for slightly more time to be spent within each work than is often granted in broad survey courses. Because of the in-depth nature of this study, students learn to identify and analyze such elements of fiction as theme, genre, structure, form, language, and context.
and by examining Shakespeare's Romeo and Juliet and Norman and Stoppard's Shakespeare in Love.

**Style:** 50% Lecture, 50% Discussion.

**ENGL 3001W Textual Analysis: Methods**

* A-F only, 4 credit(s); prereq English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001V; Meets CLE req of Writing Intensive;
* Instructor: Kelley Gage, Molly
* Description: This course is loosely based on inspecting and interpreting the scapegoat, a term used to describe a person or group of people made to bear responsibility for the problems of a larger community. Through this lens, we will closely and critically read the power struggles and rituals of sacrifice that define communities in poems, short stories, plays, longer texts, and films. In addition to considering various literary theories, we will consider texts and films by some of the following authors and directors: Emily Bronte, Alfonso Cuarón, Philip K. Dick, Emily Dickinson, Ralph Ellison, William Faulkner, Nathaniel Hawthorne, Shirley Jackson, Franz Kafka, Urula Le Guin, Fernando Meirelles, Herman Melville, Arthur Miller, Christopher Nolan, Arundhati Roy, Jose Saramago, Anna Deveare Smith, William Shakespeare, Edith Wharton, Tennessee Williams, Virginia Woolf.

**ENGL 3002 Modern Literary Criticism and Theory**

* 3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3802; Credit will not be granted if credit has been received for: ENGL 3002H;
* Instructor: Mrozowski, Daniel Justin
* Description: Student may contact the instructor or department for information.

**ENGL 3004W Historical Survey of British Literatures II**

* 4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3003; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
* Instructor: STAFF
* Description: This course, the first in the Survey of British Literature series, introduces students to the literature of the British Isles from the Anglo-Saxon period to the eighteenth century. This broad sweep through time covers the Medieval period, the Renaissance (or, Early Modern Age), Civil Wars, Restoration, and the Enlightenment and provides a fascinating variety of works in a multitude of genres including poetry, drama, plays, novels, essays, autobiography, and speeches. Students will read authors such as Milton, Chaucer, Spenser, Marlowe, and Defoe, as well as lesser-known writers, thus gaining a more complete understanding of the literature of these periods. Because artistic expression is affected and informed by historical circumstances, texts are placed within their historical moments and considered in terms of their social, political, biographical, and economical contexts and close reading is used to connect features of the texts to their culture in order to gain a greater understanding of both. This course is demanding in its reading and writing requirements, but the variety and complexity of human experiences presented here affords great opportunity for stimulating discussion and thoughtful writing.

**ENGL 3004W Historical Survey of British Literatures II**

* 4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
* Instructor: Mc Naron, Tony A
* Description: Student may contact the instructor or department for information.

**ENGL 3002 Modern Literary Criticism and Theory**

* 3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3802; Credit will not be granted if credit has been received for: ENGL 3002H;
* Instructor: Brown, Tony C.
* Description: Within the last thirty years Literary Theory has become one of the most important, energetic, and controversial areas of literary studies. It is now widely recognized as central to the disciplines of English and Comparative Literature. This course will introduce you to Literary Theory through the writings of major theorists (including Paul de Man and Jacques Derrida) as well as seminal works in the history of literary criticism (by Plato, Aristotle, and Pope among others). The latter provides the background necessary to take the full measure of the former's impact. In addition, due to the complex nature of what is now called Literary Theory, we will focus our reading and thereby lend coherence to the course by attending primarily to the question: "What is literature?"
* Style: 100% Discussion. The course is entirely discussion based. Each student will contribute.
* Grading: 50% mid exam, 50% final exam. Two exams during the semester plus one final exam. To pass the course you must pass the final exam.
* Exam Format: Each exam during the semester will be one hour in length. The final exam will be two hours. All exams will be handwritten. No books, computers, or other materials will be allowed in the exams.

**ENGL 3002 Modern Literary Criticism and Theory**

* 3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3802; Credit will not be granted if credit has been received for: ENGL 3002H;
* Instructor: Mrozowski, Daniel Justin
* Description: Student may contact the instructor or department for information.

**ENGL 3003W Historical Survey of British Literatures I**

* 4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3003; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
* Instructor: STAFF
* Description: This course, the first in the Survey of British Literature series, introduces students to the literature of the British Isles from the Anglo-Saxon period to the eighteenth century. This broad sweep through time covers the Medieval period, the Renaissance (or, Early Modern Age), Civil Wars, Restoration, and the Enlightenment and provides a fascinating variety of works in a multitude of genres including poetry, drama, plays, novels, essays, autobiography, and speeches. Students will read authors such as Milton, Chaucer, Spenser, Marlowe, and Defoe, as well as lesser-known writers, thus gaining a more complete understanding of the literature of these periods. Because artistic expression is affected and informed by historical circumstances, texts are placed within their historical moments and considered in terms of their social, political, biographical, and economical contexts and close reading is used to connect features of the texts to their culture in order to gain a greater understanding of both. This course is demanding in its reading and writing requirements, but the variety and complexity of human experiences presented here affords great opportunity for stimulating discussion and thoughtful writing.

**ENGL 3004W Historical Survey of British Literatures II**

* 4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
* Instructor: Goldberg, Brian B
* Description: This course will provide a survey of British and postcolonial literature from the late eighteenth century to the present.
* Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% other evaluation.
ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Mrozowski,Daniel Justin
Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare
A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: Engl 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;
Instructor: Sugnet,Charles J
Description: This course will examine Shakespeare’s major plays as expressions of England’s emergence as a major commercial and military power in the late sixteenth and early seventeenth centuries. Special attention will be paid to questions of national sovereignty, England’s place in wider European community, religious conflict, and Atlantic expansionism. The first section of the course focuses on three plays that raise questions about England’s relationship to the other countries within the British archipelago, especially Scotland: Macbeth, 1 Henry IV, and King Lear. We’ll then take up the larger question of England’s place in a evolving European intellectual and political culture with attention to three Italian plays, The Taming of the Shrew, The Merchant of Venice, and Othello. After Othello takes us to the Ottoman lands of the eastern Mediterranean, we will conclude with The Tempest and its vision of the old Mediterranean order yielded to the new economies of the Atlantic. Supplementary readings will be available both in Italian and in English translation. Students may either write three short papers or one extended research paper examining a play and its literary and historical sources.
Style: 25% Lecture, 75% Discussion.
Grading: 20% final exam, 60% reports/papers, 20% class participation.
Exam Format: Multiple choice and essay on final exam.

ENGL 3007 Shakespeare
A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: EngL 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core;
Instructor: Hirsch,Gordon D
Description: What makes the plays of William Shakespeare popular and interesting nearly 400 years after his death? We will read and discuss approximately ten Shakespeare plays in an effort to answer this question. The readings will represent a variety of genres and the chronological range of Shakespeare’s career as a playwright. Likely readings “Romeo and Juliet,” “A Midsummer Night’s Dream,” “Richard II,” “As You Like It,” “Hamlet,” “Twelfth Night,” “Macbeth,” “The Merchant of Venice,” “King Lear,” “The Winter’s Tale,” and “Antony and Cleopatra.” This course is a requirement for English majors, but non-majors are welcome too.
Style: 25% Lecture, 75% Discussion.
Grading: 20% final exam, 60% reports/papers, 20% class participation.
Exam Format: Multiple choice and essay on final exam.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Riordan,Kevin A
Description: Student may contact the instructor or department for information.

ENGL 3005W Survey of American Literatures and Cultures I
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Schroeder,Sharin’ Faith
Description: This course covers British literature from the late eighteenth century to the present. By looking at fiction, nonfiction, poetry, and plays, we will study reactions to the French Revolution, the effects of Romanticism, Gothic influences on fiction, the Victorian novel, nineteenth-century fantasy, British perspectives on empire, and the rise of Modernism. The evening discussion class allows us to approach the texts creatively. Class time will be spent in whole-class reading, discussion, group-work, informal presentations, and in-class writing. You will have the opportunity to look at original reviews of the works we read.

ENGL 3005W Survey of American Literatures and Cultures I
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Hutter,Liz
Description: English 3005 surveys American literature from first European contact to 1860. In a fascinating intersection between literature and history, the course examines a wide variety of texts on a range of issues, from nation-building to anti-colonial resistance, and from human rights to restrictions. The readings are astonishingly diverse, including autobiography, biography, essays, letters, speeches, sermons, histories, poems, oral transcriptions, and novels. How, from such variety, can we claim a national literature? English 3005 begins to answer this question for you in new and fascinating ways.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Trochmann,Lisa Joy
Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare
A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3807; Credit will not be granted if credit has been received for: ENGL 3807H; Meets CLE req of Literature Core;
Instructor: Schroeder,Sharin’ Faith
Description: This course covers British literature from the late eighteenth century to 1860. In a fascinating intersection between literature and history, the course examines a wide variety of texts on a range of issues, from nation-building to anti-colonial resistance, and from human rights to restrictions. The readings are astonishingly diverse, including autobiography, biography, essays, letters, speeches, sermons, histories, poems, oral transcriptions, and novels. How, from such variety, can we claim a national literature? English 3005 begins to answer this question for you in new and fascinating ways.

ENGL 3005W Survey of American Literatures and Cultures I
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Mc Naron,Toni A
Description: Student may contact the instructor or department for information.

ENGL 3005W Survey of American Literatures and Cultures I
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Roth-Reinhardt,Anne E
Description: Student may contact the instructor or department for information.

ENGL 3005W Survey of American Literatures and Cultures I
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Schroeder,Sharin’ Faith
Description: This course covers British literature from the late eighteenth century to 1860. In a fascinating intersection between literature and history, the course examines a wide variety of texts on a range of issues, from nation-building to anti-colonial resistance, and from human rights to restrictions. The readings are astonishingly diverse, including autobiography, biography, essays, letters, speeches, sermons, histories, poems, oral transcriptions, and novels. How, from such variety, can we claim a national literature? English 3005 begins to answer this question for you in new and fascinating ways.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Mc Naron,Toni A
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Miller,Jennifer L
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Riordan,Kevin A
Description: Student may contact the instructor or department for information.

ENGL 3007 Shakespeare
A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3807; Credit will not be granted if credit has been received for: ENGL 3807H; Meets CLE req of Literature Core;
Instructor: Schroeder,Sharin’ Faith
Description: This course covers British literature from the late eighteenth century to 1860. In a fascinating intersection between literature and history, the course examines a wide variety of texts on a range of issues, from nation-building to anti-colonial resistance, and from human rights to restrictions. The readings are astonishingly diverse, including autobiography, biography, essays, letters, speeches, sermons, histories, poems, oral transcriptions, and novels. How, from such variety, can we claim a national literature? English 3005 begins to answer this question for you in new and fascinating ways.

ENGL 3005W Survey of American Literatures and Cultures I
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Trochmann,Lisa Joy
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Trochmann,Lisa Joy
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Miller,Jennifer L
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Mc Naron,Toni A
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3006; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Schroeder,Sharin’ Faith
Description: This course covers British literature from the late eighteenth century to 1860. In a fascinating intersection between literature and history, the course examines a wide variety of texts on a range of issues, from nation-building to anti-colonial resistance, and from human rights to restrictions. The readings are astonishingly diverse, including autobiography, biography, essays, letters, speeches, sermons, histories, poems, oral transcriptions, and novels. How, from such variety, can we claim a national literature? English 3005 begins to answer this question for you in new and fascinating ways.
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<th>Course Code</th>
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<tr>
<td>ENGL 3027W</td>
<td>The Essay</td>
<td>4 credits</td>
<td>This course is for students ready to face more challenging assignments and deepen their comfort and skill with writing. The instructor helps the student develop more sophisticated writing strategies and experiment with more creative stylistic choices. Assignments might include autobiographies, critical comparisons, reviews of articles or books, cultural analyses, persuasive essays, and annotated bibliographies. Students in this course learn to: Generate topics and develop essays with greater independence than they exercised in freshman composition. Write for multiple audiences -- academic and non-academic -- make appropriate decisions about content, rhetoric, structure, vocabulary, style, and format. Write creative non-fiction and other genres incorporating complex description and analysis. Analyze the conventions and styles of writing in their major field. Experiment with new and more sophisticated writing strategies and styles.</td>
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<tr>
<td>ENGL 3007H</td>
<td>Honors: Shakespeare</td>
<td>3 credit(s); max credits 9, 3 repeats allowed</td>
<td>Description: Shakespeare A-F only, 3 credit(s); prereq Honors or instr consent credit will not be granted if credit already received for: ENGL 3007, 3807; Credit will not be granted if credit has been received for: ENGL 3007; Meets CLE req of Literature Core; Instructor: Hancher,Michael Close study of six major plays from all phases of Shakespeare’s career (Romeo and Juliet; A Midsummer Night’s Dream; As You Like It; Henry IV, Part One; Hamlet; and The Tempest); as well as some of his sonnets. Special attention will be paid to Shakespeare’s double craft as both a poet and playwright. Style: 30% Lecture, 5% Film/Video, 60% Discussion, 5% Small Group Activities. Grading: 60% reports/papers, 20% quizzes, 10% reflection paper, 10% class participation. The “basic course requirements” (mentioned in the University definitions of course grades) include regular attendance.</td>
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<tr>
<td>ENGL 3020</td>
<td>Studies in Literary and the Other Arts: Berlin and New York</td>
<td>3 credit(s), max credits 9, 3 repeats allowed</td>
<td>Description: Berlin and New York City: two metropolises that emerged in the half century after 1870, two magnets for writers, artists, and seekers of better fortunes, two sites of modernism and its iterations. Between them the Atlantic Ocean, which is crossed and re-crossed by people and ideas becoming ever denser with a web of connections. In this course, we will look at how ideas and texts travel across national and disciplinary boundaries: what are the connections between some key literary texts, architecture, painting, and music? How do these works express multifold cultural activities and larger national aspirations? Authors, artists, events, and works to be discussed include the 1913 New York Armory Show, Walt Whitman, Bertolt Brecht, Tony Kushner, Theodor Fontane, Edith Wharton, ?Westside Story,? Alfred Stieglitz, Bernhard Schlink, Guenter Grass. Style: 40% Lecture, 10% Film/Video, 40% Discussion, 10% Student Presentation.</td>
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<tr>
<td>ENGL 3021</td>
<td>Captivity in Literature and Film: From the Barbary Coast to Guantanamo Bay</td>
<td>3 credit(s); Credit will not be granted if credit has been received for: ENGL 5021; Instructor: Matar,Nabil I The course examines whether or not there is a captivity genre in English/GLOBAL literature, from the early modern period to the 21st century. The texts and films that will be studied belong to numerous civilizations and histories.</td>
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<tr>
<td>ENGL 3027W</td>
<td>The Essay</td>
<td>4 credit(s); Meets CLE req of Writing Intensive; Instructor: STAFF This course is for students ready to face more challenging assignments and deepen their comfort and skill with writing. The instructor helps the student develop more sophisticated writing strategies and experiment with more creative stylistic choices. Assignments might include autobiographies, critical comparisons, reviews of articles or books, cultural analyses, persuasive essays, and annotated bibliographies. Students in this course learn to: Generate topics and develop essays with greater independence than they exercised in freshman composition. Write for multiple audiences -- academic and non-academic -- make appropriate decisions about content, rhetoric, structure, vocabulary, style, and format. Write creative non-fiction and other genres incorporating complex description and analysis. Analyze the conventions and styles of writing in their major field. Experiment with new and more sophisticated writing strategies and styles.</td>
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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
materialism and its contributions to epistemology, economics, political science, and literary and cultural criticism. We will also discuss the first attempts of socialist development in the Soviet Union and Eastern Europe and current developments in China and Cuba. Special sessions will also consider Marxism and feminism, globalization, imperialism, and current struggles in the labor movement. Guest speakers with first-hand knowledge and experience in these areas will lead some of the class sessions. Students will be evaluated on the basis of journals (30%), a midterm exam (35%), and a final exam (35%).

**ENGL 3090 General Topics: Tony Kushner in America**
3 credit(s), max credits 12, 3 repeats allowed;
Instructor: Katz, Judith
Description: Student may contact the instructor or department for information.

**ENGL 3090 General Topics: Origins of English Words**
1-4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Liberman, Anatoly
Description: Student may contact the instructor or department for information.

**ENGL 3090 General Topics: Origins of English Words**
1-4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Liberman, Anatoly
Description: Student may contact the instructor or department for information.

**ENGL 3090 General Topics: Literary Theory: Classical & Medieval to Modern**
3 credit(s), max credits 12, 3 repeats allowed;
Instructor: Farber, Lianna
Description: This course explores some of the major questions about literary theory that preoccupied important thinkers from antiquity through modernism by looking at how they posed and answered questions about language (how words mean), audience (to whom they mean) and the literary (how literary writing differs from other forms of writing). We will begin by examining how theorists thought that words bear meaning: when, for example, can words carry more than their literal meaning? Must they always carry more than their literal meaning? If and when they do carry “extra” meaning, how do we know what to understand? Next, we will look to questions of audience: who is the implied audience for literature? Is the implied audience necessarily male? Is the audience’s understanding of a work of literature the same as the author’s? How can the author manipulate understanding? What is the relationship between literature and rhetoric? Finally, we will explore these theorists’ understanding of what literature is and how it differs from other kinds of writing. Readings will include works by Plato, Aristotle, Augustine, Christine de Pizan, Dante, Sidney, Behn, Wordsworth, Coleridge, Shelley, and Woolf.

**ENGL 3101 Survey of Medieval English Literature**
A-F only, 3 credit(s);
Instructor: Larkin, Christopher R
Description: Student may contact the instructor or department for information.

**ENGL 3122 Shakespeare II: The Major Themes**
3 credit(s); prereq 3007 or instr consent credit will not be granted if credit received for: EngL 3131;
Instructor: Haley, David B
Description: Shakespeare II: The Major Themes is designed to help you find your own preferred style of talking about Shakespeare. This course explores some of the major questions Shakespeare handled in his works. These include themes familiar to his Elizabethan audience, such as how the community treats outsiders, what the public role of women should be, how a traditional institution like monarchy survives rebellion and change. Because the society Shakespeare portrays in his drama places a higher value on loyal service than it does on equality, the quest for a just social hierarchy permeates his comedies (e.g. A Midsummer Night’s Dream) and romances (e.g. The Tempest) as well as tragedies like King Lear. The content of 3122 varies each time it is offered, but students will read at least eight plays and interpret them in class. In place of midterm exams, you’ll take short (thirty-minute) tests requiring brief essays, and a term paper (2000 words) will replace the final. Class discussion will focus on Shakespeare’s text, with the instructor providing any historical and theatrical background necessary for understanding what we read. Students are encouraged to try different approaches to Shakespeare. These can range from examining his sources to contrasting different performances, but every approach must be grounded in Shakespeare’s text, which you’ll be expected to quote and partly memorize. Shakespeare II: The Major Themes is designed to encourage student to try different approaches to Shakespeare. These can range from examining his sources to contrasting different performances, but every approach must be grounded in Shakespeare’s text, which you’ll be expected to quote and partly memorize. Shakespeare II: The Major Themes is designed to help you find your own preferred style of talking about Shakespeare.

**ENGL 3133 Stuart England: 17th-Century Literature and Culture: Early Modern British Comedy**
3 credit(s); Credit will not be granted if credit has been received for: ENGL 3133H;
Instructor: Haley, David B
Description: EARLY MODERN BRITISH COMEDY. For this reading course, twelve plays have been chosen to illustrate the variety of British comedy from the Restoration of monarchy in 1660 down to the American Revolution a century later. Congreve, England’s greatest comic writer after Shakespeare, is the transitional figure in this brilliant dramatic literature. Arising from courtly traditions, early modern comedy reaches maturity with the emergence of female playwrights and the rise of our modern bourgeois culture that produced the gendered society reflected in modern novels. In our classes, we’ll read aloud and discuss four or five of the plays. The rest of the course work consists of three one-hour tests and a 2500-word term paper.

**ENGL 3141 The Restoration and the Eighteenth Century**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ENGL 5140;
Instructor: Goldberg, Brian B
Description: The period from 1660-1789 saw a number of crucial developments in British literary history: the rise of the novel, the invention of the Gothic as a literary mode, the production of some of the best satire written in English, the introduction of the sublime, the beautiful, and the picturesque as major aesthetic categories, and the writing and performance of some of Great Britain’s most intriguing drama, to name conspicuous examples. Further, given the rise to prominence of commercial publication and of professional authorship and criticism during this period, it is not going too far to say that the machinery of modern literary culture was established at this time. English 3141/5140 will explore key literary developments of the period.

**ENGL 3222H Honors: American Novel from 1900**
3 credit(s); prereq Honors or instr consent; Credit will not be granted if credit has been received for: ENGL 3222;
Instructor: Rabinowitz, Paula
Description: America is a novel—it’s new, it’s complex, it contains a multiplicity of characters, voices, stories, regions and points of view. This course reads some of the great American novels of the 20th century to try to figure out what nation and its narrative is all about. Hint: MONEY, SEX, RACE, BOOZE, LAND, WORK for starters.
ENGL 3300 Multicultural American Literatures and Cultures: The Modern Native American Novel
3 credit(s), max credits 9, 3 repeats allowed; Credit will not be granted if credit has been received for: ENGL 3500; Instructor: Treuer, David Robert
Description: Most courses offered that detail ?Native American Literature? do so without investigating what is meant by ?Native American? or how that might affect the penultimate descriptor ? ?literature.? How are we to judge what falls into the subject area of ?Native American Literature?? Are we to read only Native American Writers? How are we to classify who is, and who is not, Native American? By blood or experience? Moreover, what is Indian literature? Literature about Indians, or by them? This course seeks to investigate these difficult questions by reading seminal works that have contributed to a literature about Native Americans. We will read early works by writers such as Coote, and Longfellow, and work forward to include writings by N Scott Momaday, Louise Erdrich and James Welch. We will explore the development of key images of Native Americans and look at how the sum of these imaginings help constitute an understanding of Indian identity on the page. Instead of being representative, this course will use literature, all of it American Literature, to explore the formation of ?Indianness? on the page, in order to pull apart the very idea of what constitutes Native American Literature.

ENGL 3300 Multicultural American Literatures and Cultures: Black, Red & Blues
3 credit(s), max credits 9, 3 repeats allowed; Credit will not be granted if credit has been received for: ENGL 3500; Instructor: Davis PhD, LaRose M
Description: The course will examine the social, historical, and political convergences of African American and Native American communities as those intersections are articulated through various mediums of cultural production. We will look at literature, music, historical documents, and film. The aim of the course is to theorize the natures of those convergences and the impact that those convergences had within those two communities.

ENGL 3330 Gay, Lesbian, Bisexual, and Transgendered Literature: Introduction to GLBT Literature in the West
3 credit(s), max credits 9, 3 repeats allowed; Instructor: Wright, Michelle M
Description: This course will focus on the literary construction of what we now call GLBT identities in the Angophone (North America and Britain specifically) West. We will begin with late 19th century "inventions" of the invert/homosexual/pervert as they arise in England and Germany, and then look at the first literary responses to them (both from England): Radclyffe Hall's The Well of Loneliness and E M Forster's Maurice (which wasn't actually published for decades later). Rather than taking sociopolitical stances on sexuality, this class will be wholly focused on how 20th century literature in the West sought to imagine and construct a "new" identity, why race and gender seem to "pop up" time and time again in these novels, and how this literature--often the only public "queer" voice at times directly reflects, at times transcends the era in which it was written. Including the above, our authors will also include Virginia Woolf; James Baldwin; Canadian Shani Mootoo; Black Scottish poet Jackie Kay; American mystery writers Rita Mae Brown and Patricia Highsmith ... others
Style: 25% Lecture, 45% Discussion, 15% Small Group Activities, 15% Student Presentation.
Grading: 60% reports/papers, 10% attendance, 10% in-class presentation, 20% class participation. Midterm paper is 20% and final paper is 40% of your final grade.

ENGL 3351W Voices from the Gaps: Writing and Art by Women of Color
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Cohen, Sara Jo
Description: Student may contact the instructor or department for information.

ENGL 3400 Post-Colonial Literatures: Culture & Colonialism
3 credit(s), max credits 9, 3 repeats allowed; Credit will not be granted if credit has been received for: ENGL 3400; Instructor: Ismail, Cadir M
Description: Student may contact the instructor or department for information.

ENGL 3400H Honors: Post-Colonial Literatures: South Africa
3 credit(s); prereq Honors or instr consent; Credit will not be granted if credit has been received for: ENGL 3400; Instructor: Sugnet, Charles J
Description: Student may contact the instructor or department for information.

ENGL 3506 Learning Internships II
A-F only, 4 credit(s); meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Fletcher, Pamela R
Description: Afro/Engl 3592W, Black Women's Personal Narratives is a literature and an intensive writing course. Students will read personal essays and memoirs written by Black women writers living in the U.S.A. In these nonfiction works, writers such as bell hooks, Audre Lorde, and Lisa Jones will address art, education, family, hair, motherhood, politics, sexism, sexuality, skin color and intra-racial prejudice, socio-economic class and classism, spirituality and religion, racial/cultural identity and racism. The course will place heavy emphasis on student participation, so students are expected to attend class regularly and to engage in active class discussion regarding films and assigned readings. Six books will be assigned over the course of the semester, and paper assignments will include six short literary papers (3-5 pages) and revisions. There will be no midterm or final examinations, as midterm and final papers will be assigned instead.
Style: 30% Lecture, 20% Film/Video, 50% Discussion.

ENGL 3592W Introduction to Black Women Writers in the United States
3 credit(s); prereq credit will not be granted if credit already received for: Afro 3592, Engl 3592W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

ENGL 3598W Introduction to African American Literature and Culture II
4 credit(s); Credit will not be granted if credit has been received for: AFRO 3591W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

ENGL 3601 Analysis of the English Language
4 credit(s); prereq credit will not be granted if credit already received for: Engl 3601W; Instructor: Esquire, Genevieve J
Description: This course is a general introduction to basic issues in language structure and language use, with specific application to English, and occasional extension to other languages. The focus is on verbal systems, which are universally shared by all human cultures, whereas writing is a secondary, late development of speech patterns. First, we will highlight the universality of language by referring to the physiological/biological foundations of language, and the basic features that characterize language dynamics. The course is thereafter organized into two general sections: 1) A general examination and explanation of cognitive aspects of language, through concrete illustrations of its major components specifically as they apply to English. Those components include: a) the structure of sounds (phonetics and phonology); b) the structure of words (morphology); c) the structure of sentences (syntax); d) the structure of meaning (semantics); and e) the structure of discourse in context (pragmatics). The process of
native language acquisition is then presented as evidence for the fundamental concepts outlined above. 2) An overview of social and behavioral aspects of language. Contemporary language variation is examined from a sociolinguistic perspective. We study the correlation between linguistic components (as presented in the first part of the course), and external social variables, such as socio-economic status, ethnicity, gender, and age. Language variability is presented in the context of stylistic shifts and code switching, with reference to differences between standard and nonstandard varieties (e.g., African American English), and relevant educational applications. Finally, we relate the historical (diachronic) development of English to its contemporary (synchronous) state. 

**Style:** 70% Lecture, 30% Discussion. PowerPoint presentations weekly topic summaries

**Grading:** 30% final exam. 3 exams (20%, 25%, 25%) 

**Exam Format:** multiple choice, true/false, special questions relating to technical topics

ENGL 3713 Editing for Publication

4 credit(s); prerequisite Soph or jr or 1st sem sr credit will not be granted if credit already received for: EngL 3641; Instructor: STAFF

**Description:** Student may contact the instructor or department for information.

ENGL 3741 Literacy and American Cultural Diversity

4 credit(s); prerequisite credit will not be granted if credit already received for: EngL 3606; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Daigre, Eric Stephen

**Description:** Students will serve as literacy workers for 2 hours a week outside of class at participating organizations in the nonprofit and educational sectors. This class combines academic study with experiential learning in order to collectively build a more engaged, complex understanding of the functions of literacy, literacy educational institutions, counter-institutional literacy programs, and the different cultures and communities in Minnesota and the Americas in general. We'll explore questions of "praxis," considering and applying our readings to the concrete circumstances of our community work, at all points trying to "make the connection" between our classroom and community work. In asking what literacy really means and what it means to be "democratic educators" in both spheres, we will challenge the distinction between classroom and community as an artifact of the modern research university. Reading: literary texts, sociological and educational theory, literacy studies. 2 papers, 2 presentations.

ENGL 3741 Literacy and American Cultural Diversity

4 credit(s); prerequisite credit will not be granted if credit already received for: EngL 3606; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Pawlowski, Lucia

**Description:** Student may contact the instructor or department for information.

ENGL 3883V Honors Thesis

A-F only, 1-4 credit(s), max credits 4, 4 repeats allowed; prerequisite Honors candidacy in English, consent of English honors advisor credit will not be granted if credit already received for: EngL 3683; Meets CLE req of Writing Intensive; Instructor: Atkinson, Beverly M

**Description:** This individually contracted course is required of English summa cum laude degree candidates. The resulting thesis (about 40 pages) may be analytical, theoretical, or creative. For complete information, students will read the relevant pages on <a href="http://englishclt.umn.edu/ugrad/degree.html#honors">http://englishclt.umn.edu/ugrad/degree.html#honors</a> or the Undergraduate Studies Office, 227 Lind, students make arrangements with a professor no later than the term preceding their last two terms. (It is strongly recommended that they do so by midterm.) They can expect to spend two semesters to research, collect, discuss, create, write, revise and revise, and then to seek approval from the supervising professor and two additional readers. Students work somewhat independently, meet periodically with the professor, and attend the English honors thesis writers' workshop as noted in the Class Schedule. It is recommended that they attend a thesis preparation and writing workshop offered by the University Honors Program (UHP) advisers, consult with the English Honors adviser, and work closely with the professor. Students find it helpful to have a peer English honors student (in the workshop) serve as a discussant and reader during the process of developing ideas and writing. Class time: average 50 minutes every other week in workshop.

**Style:** discussion, Individual research, reading, writing, .

**Grading:** 100% reports/papers. Grade is based on the completed thesis, the process leading to the final paper and the discussions with the faculty advisor.

ENGL 3960W Senior Seminar: Silence and Breaking Silence

A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Garner, Shirley Nelson

**Description:** Students will read, write about, and discuss works by Dorothy Allison, Jessie Fauset, Maxine Hong Kingston, Audre Lorde, Virginia Woolf, Alice Walker and others in order to explore the ways in which women writers from Britain and America have kept and broken silences. We will look at both what subjects people, especially women, have been reluctant to talk about and why and what creative silences exist that artists want to use or break. In their written work, students will have opportunities to consider other works by the authors we study and works by authors we will not study as well as silences in their own lives.

ENGL 3960W Senior Seminar: Representing Pocahontas

3 by 2: Novels by Jane Austen & Virginia Woolf

A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Fitzgerald, M. J

**Description:** In this class we will be reading Northanger Abbey, Persuasion and Pride and Prejudice by Jane Austen and Night and Day, Mrs Dalloway and To The Lighthouse by Virginia Woolf. We will discuss the differences and similarity between these two major novelsists with particular emphasis on the stylistic and the thematic. Students will be expected to submit their senior paper, and accommodation will be made for two individual meetings with students to discuss their project.

ENGL 3960W Senior Seminar: Representing Pocahontas

A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Griffin, Edward M

**Description:** The historical record contains not a single word that we can certainly attribute to Pocahontas herself. Yet she may be the most persistently represented figure in the history of British America and the United States. The number of items on the most recent bibliography of works about her has now reached 1,900. She shows up in every kind of representational form, from genealogies to histories to paintings to big-budget motion pictures, and she has been showing up there for four hundred years. Europeans began writing about her nearly a decade before Shakespeare's death, and there's no sign of a slowdown in the "cultural industry" (Edward Gallagher's term) that has made hers the most familiar American Indian name in world history and possibly the most misrepresented as well as the most represented of our cultural icons. Why? What has made her so compelling to scholars, artists, and the general public? This seminar, aided by the marvelous electronic ?Pocahontas Archive? compiled by Professor Gallagher and his students at Lehigh University, will find its chief focus in Pocahontas as late
twentieth- and early twenty-first century literature and art represent her, but we cannot escape tracing those recent representations back to certain types that got started early and continue to appeal to the imaginations of non-Americans as well as Americans. The readings, discussions, and assignments in the seminar will be wide-ranging. They will require you to explore the border territories among history, art, mythology, science, and sheer nonsense. Each student will take responsibility during the semester for a thoroughgoing investigation of one or more of the artistic representations of Pocahontas, and that investigation will fulfill the senior thesis requirement.

ENGL 3960W Senior Seminar: Modern American Poetry Across Cultures
A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: ENGL 3960; Meets CLE req of Writing Intensive;
Instructor: Gonzalez, Ramon
Description: This seminar will focus on major American poets who have made the art of poetry a key component of modern American literature. We will read and discuss major poets from throughout the 20th century, in order to trace themes, styles, and movements in the genre of poetry. Close reading and discussion of poems will be the main component of the course, along with one short paper that will lead to the main senior paper. Class discussions, group presentations, and documentaries on important poets will contribute to an understanding and appreciation of the rich poetic tradition in American literature. The main required text will be the Norton Anthology of Contemporary Poetry, third edition, along with two or three books by individual poets.

ENGL 3960W Senior Seminar: Comedy
A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: ENGL 3960; Meets CLE req of Writing Intensive;
Instructor: Scheil, Katherine West
Description: Comedy has been described as "one of the permanently unsolved problems of literary study." This seminar will focus on what comedy is and how it works, in theory and practice; we will examine a number of theories of comedy and laughter from Aristotle to the present, as well as representative examples of comedy from the early modern period to the present, on stage and screen. Examples may include plays by Ben Jonson, William Shakespeare, William Wycherley, William Congreve, George Etheridge, Susannah Centlivre, Richard Brinsley Sheridan, Gilbert and Sullivan, Oscar Wilde, George Bernard Shaw, Noel Coward, Joe Orton, Tom Stoppard, Samuel Beckett, Harold Pinter, Wendy Wasserstein, and Caryl Churchill. Bernard Shaw, Noel Coward, Joe Orton, Tom Stoppard, Samuel Beckett, Harold Pinter, Wendy Wasserstein, and Caryll Churchill. We will also look at examples of contemporary comedy, including Ricky Gervais's The Office, Larry David's Curb Your Enthusiasm, and a number of recent films. Topics for discussion may include: What is the role of comedy in society? Why/how do common topics (such as love, sex, fools, parents/children, death, and society) change and/or endure? Is comedy normative or transgressive? Why has there remained a gap between the theory and practice of comedy? The class will also attend a theatre performance at the Guthrie Theatre.

ENGL 3960W Senior Seminar: Literatures of Addiction
A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: ENGL 3960; Meets CLE req of Writing Intensive;
Instructor: Wright, Michelle M
Description: This course will be tracing the invention, construction and narration of drug addiction in literature and cultural history to look at the ways the Western imagination first grappled with the notion of an addiction?, to Western medicine's schizophrenic engagement with drugs the government and media legislation and commentary (respectively). Our primary focus will be literary and our discussions will be driven by analysis of the texts, but students will also be asked to do research and presentations on the invention of and deployment of opium, marijuana, heroin, cocaine and so-called recreational drugs. We will be looking at the ways in which gender, sexuality, race, ethnicity and nationality as well as religion end up being central to defining addiction? as well as what drugs are more ?dangerous? than others. This is not a good course if you or your loved one has suffered through an addiction, as our focus will be literary, philosophical, political, social and cultural, and we will be discussing issues surrounding addiction that would be difficult for someone with painful firsthand experience. Our reading will include (but not be limited to): Thomas De Quincey's breakthrough Confessions of an English Opium Addict, Satanist Aleister Crowley's Diary of a Drug Fiend, Father of the Beats William S. Burroughs? Junky, anonymous? Go Ask Alice, Hunter S. Thompson's Fear and Loathing in Las Vegas, Linda院子里sk's The Smallest Sister of the Extreme: Women Writing on the Drug Experience (including excerpts from Minnesota? own Louisa May Alcott) as well as cultural histories such as Th. Metzger's? The Birth of Heroin and the Demonization of the Dope Fiend, and Dominic Streetfield's? Cocaine: An Unauthorized Biography. The majority of your grade will be based on your final paper, but you will also have to do one group presentation and several weekly writing assignments. Reading will also be heavy. In short: not a good class if you don?t have the time or inclination to read, ponder, discuss, and create. Class attendance and participation is mandatory and also a part of your final grade.
Style: 25% Lecture, 45% Discussion, 15% Small Group Activities, 10% Student Presentation. Class participation and attendance make up 30% of the grade!
Grading: 60% reports/papers, 10% attendance, 10% in-class presentation, 20% class participation. midterm paper is 20% and final paper is 40% of your final grade
Exam Format: No exams--all papers, all the time

ENGL 3983 Directed Study
A-F only, 1-4 credit(s); prereq English major, [jr or sr], instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual study. Open to qualified students for one or more semesters. Before receiving permission to register, students submit to the English Undergraduate Studies office a signed contract using the CLA "Student/Faculty Learning Contract" available in all CLA offices.

ENGL 4090 General Topics: Wit & Humor in a Jugular Vein: Bierce, Crane, Wilde
3 credit(s), max credits 12, 3 repeats allowed;
Instructor: Clayton, Tom
Description: Wit and Humor in a Jugular Vein: Bierce, Crane, Wilde These three fin del siecle wits and satirists were all natural ironists, gifted writers, and perceptive critics of literature, culture, society, and more: Americans Ambrose ?Bitter? Bierce, William S. Burroughs (1842-1914?) and Stephen Crane (1871-1900), and Anglo-Irish Oscar Wilde (1854-1900). As writers persistently neglected in the U.S., Bierce and Crane will receive more attention, but Wilde has received special attention. These three are discussed in historical, philosophical, and social contexts, as well as in their particular contexts. We will read selections from their works and examine the nature of their humor and wit. We will consider the way these writers use wit and humor in their works, and the role of wit and humor in the development of modern literature. We will also consider the impact of these writers on later writers, and the influence of their work on modern literature.

ENGL 4090 General Topics: Wit & Humor in a Jugular Vein: Bierce Crane Wilde
3 credit(s), max credits 12, 3 repeats allowed;
Instructor: Clayton, Tom
Description: Wit and Humor in a Jugular Vein: Bierce, Crane, Wilde These three fin del siecle wits and satirists were all natural ironists, gifted writers, and perceptive critics of literature, culture, society, and more: Americans Ambrose ?Bitter? Bierce, William S. Burroughs (1842-1914?) and Stephen Crane (1871-1900), and Anglo-Irish Oscar Wilde (1854-1900). As writers persistently neglected in the U.S., Bierce and Crane will receive more attention, but Wilde has an important place in the company. Concentrated attention to Bierce's Devil's Dictionary, ?An Occurrence at Owl Creek Bridge,? and selected other works; Crane's collections of poems, The Black Riders and War Is Kind; and extracts and selections from the wit and humor of Wilde. Bierce defines Cynic as ?A blackguard whose faulty vision sees things as they are, not as they ought to be.? The three range characteristically from the skeletal to the sardonic, but their concern with the human
condition is far broader, and they write satire partly in the spirit of Byron’s Don Juan? is it? If I laugh at any mortal thing, is that I may not weep? Style: 30% Lecture, 10% Film/Video, 45% Discussion, 15% Small Group Activities. Distribution of time is bound to vary somewhat from class to class. Grading: 15% mid exam, 15% quizzes, 35% additional semester exams, 25% reflection paper, 10% in-class presentation. 3 exams, the third 20%. The papers will be analytical, not open-ended “reflection.” Exam Format: Some objective questions, but mostly analysis and essay.

ENGL 4152 Nineteenth Century British Novel
A-F only, 3 credit(s);
Instructor: Hirach.Gordon D
Description: This course is intended as a survey of the 19th-century British novel for advanced undergraduates and graduate students. We will likely read one novel each by the following novelists: Jane Austen, Charlotte Bronte, Charles Dickens, Elizabeth Gaskell, Wilkie Collins, George Eliot, Robert Louis Stevenson, and Thomas Hardy.
Style: 35% Lecture, 50% Discussion, 15% Student Presentation.
Grading: 60% reports/papers, 10% attendance, 10% in-class presentation, 20% class participation.

ENGL 4603W World Engishes
4 credit(s): prereq credit will not be granted if credit received for: EngL 3603W, EngL 5603; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Escure.Genevieve J
Description: Student may contact the instructor or department for information.

ENGL 4722 Alphabet to Internet: History of Writing Technologies
4 credit(s): prereq credit will not be granted if credit received for: EngL 3633;
Instructor: Hancher.Michael
Description: Technologies of writing -- the alphabet, handwriting, printing, and electronic text -- and their cognitive and social consequences. Topics include writing and memory; literacy, power, and control; printing, language, and national identity; alphabetization and other ways of ordering the world; secrecy, privacy, and publicity; typography, legibility, and design; theories of technological determinism; the future of reading after the internet. Readings will range from Homer and Plato to Wikipedia and Facebook.
Style: 40% Lecture, 60% Discussion.
Grading: 65% reports/papers, 10% in-class presentation, 15% class participation, 10% other evaluation. “Other Evaluation” is 10% for online comments on readings. The “basic course requirements” (mentioned in the University definitions of course grades) include regular attendance.

ENGL 5002 Introduction to Literary and Cultural Theory
3 credit(s): prereq grad or instr consent ;
Instructor: Brown.Tony C.
Description: Student may contact the instructor or department for information.

ENGL 5021 Captivity in Literature and Film: From the Barbary Coast to Guantanamo Bay
3 credit(s): prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ENGL 3021;
Instructor: Matar,Nabil I
Description: The course examines whether or not there is a captivity genre in English/Global literature, from the early modern period to the 21st century. The texts and films that will be studied belong to numerous civilizations and histories.

ENGL 5090 Readings in Special Subjects
3-4 credit(s), max credits 9, 3 repeats allowed; prereq grad student or instr consent ; Credit will not be granted if credit has been received for: ENGL 5100;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

ENGL 5140 Readings in American Minority Literature: Black, Red & Blues
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent credit will not be granted if credit received for: 5130;
Instructor: Davis PhD.LaRon
Description: The Restoration & the Eighteenth Century
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ENGL 3141;
Instructor: Goldberg.Brian P
Description: The period from 1660-1789 saw a number of crucial developments in British literary history: the rise of the novel, the invention of the Gothic as a literary mode, the production of some of the best satire written in English, the introduction of the sublime, the beautiful, and the picturesque as major aesthetic categories, and the writing and performance of some of Great Britain’s most intriguing drama, to name conspicuous examples. Further, given the rise to prominence of commercial publication and of professional authorship and criticism during this period, it is not going too far to say that the machinery of modern literary culture was established at this time. English 3141/5140 will explore key literary developments of the period.

ENGL 5150 Readings in 18th Century Literature and Culture: Anglo-American Romanticisms
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent credit will not be granted if credit received for: 5250;
Instructor: Ross Jr,Donald
Description: This graduate course will treat British Romanticism as a background for American Romanticism. The focus will be on themes or motifs and how they were expressed on both sides of the Atlantic. Examples of themes include organicism, the Faust and Wandering Jew figures, phrenology and physiognomy, spiritualism, the radical individual, imagination and reason, and Napoleon. From the American perspective, the key writers are Coleridge, Wordsworth, Byron, and Carlyle; and the American Romantics we will focus on are Emerson, Thoreau, Poe, Fuller, Hawthorne, Melville, and Whitman. In addition to common readings in the mainstream tradition, each student will focus on the careers of one British and one American writer. This is a general-purpose reading course - no massive writing assignments. Sources for readings: Bloom Harold and Lionel Trilling, eds., Romantic Poetry and Prose, Oxford 0-19-501615-7 DeQuincey, Thomas, Confessions of an English Opium Eater, Dover 0-486-28742-4 Carlyle, Thomas, Selected writings, Penguin 0-14-03065-2 Bronte, Charlotte, Jane Eyre, Signet, 0-451-52332-6 Emerson, Ralph Waldo, Selections from Ralph Waldo Emerson: An Organic Anthology, Houghton-Mifflin 0-395-05112-6 Hawthorne, Nathaniel, Young Goodman Brown and other tales, Oxford 0-19-283600-5 Poe, Edgar Allan, Fall of the House of Usher and other tales, Signet 0-451-52675-9 Fuller, Margaret, Portable Margaret Fuller, Penguin 0-14-017665-9 Longfellow, Henry Wadsworth, Favorite poems, Dover 0-486-27273-7 Hawthorne, Nathaniel. House of the Seven Gables, Penguin 0-14-039005-7 Whitman, Walt, Leaves of Grass, Bantam 0-533-21116-1 Style: 75% Discussion, 25% Student Presentation.
Grading: 80% reports/papers, 20% class participation.

ENGL 5200 Readings in American Literature: The First American Novels
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent credit will not be granted if credit received for: 5120;
Instructor: Griffin.Edward M
Description: Student may contact the instructor or department for information.

ENGL 5300 Readings in American Minority Literature: Black, Red & Blues
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent credit will not be granted if credit received for: 5130; Credit will not be granted if credit has been received for: ENGL 3300;
Instructor: Davis PhD.LaRon
Description: Student may contact the instructor or department for information.
ENGL 5510 Readings in Criticism and Theory: Literary Theory: Classical & Medieval to Modern
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent
Instructor: Farber, Lianna
Description: This course explores some of the major questions about literary theory that preoccupied important thinkers from antiquity through modernism by looking at how they posed and answered questions about language (how words mean), audience (to whom they mean) and the literary (how literary writing differs from other forms of writing). We will begin by examining how theorists thought that words bear meaning: when, for example, can words carry more than their literal meaning? Must they always carry more than their literal meaning? If and when do they carry "extra" meaning, how do we know what to understand? Next, we will look to questions of audience: who is the implied audience for literature? Is the implied audience necessarily male? Is the audience's understanding of a work of literature the same as the author's? how can the author manipulate understanding? What is the relationship between literature and rhetoric? Finally, we will explore these theorists' understanding of what literature is and how it differs from other kinds of writing. Readings will include works by Plato, Aristotle, Augustine, Christine de Pizan, Dante, Sidney, Behn, Wordsworth, Coleridge, Shelley, and Woolf.

ENGL 5711 Introduction to Editing
4 credit(s); prereq credit will not be granted if credit received for: 5401;
Instructor: Zuckerman, Jeffrey Jay
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Clayton, Tom
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Baxter, Charles Roger
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Sirc, Geoffrey Michael
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Treuer, David Robert
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Ismail, Oadi M
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Hirsch, Gordon D
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Sugnet, Charles J
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Weinsheimer, Joel Clyde
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Hancher, Michael
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 repeats allowed; prereq Grad student or instr consent
Instructor: Lee, Josephine D
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<td>Directed Readings, Study, or Research</td>
<td>Grad student or instr consent</td>
<td>1-3</td>
<td>max credits 45, 15 repeats allowed; prereq</td>
<td>Student may contact the instructor or department for information.</td>
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<td>Garner, Shirley Nelson</td>
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<td>Fitzgerald, M. J</td>
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<td>ENGL 5992</td>
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<td>Hampi, Patricia</td>
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<td>ENGL 5992</td>
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<td>Craig, Siobhan S</td>
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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ENGL 8090 Seminar in Special Subjects: What is Realism?  
3 credit(s), max credits 12, 4 repeats allowed; 
Instructor: Brennan, Timothy Andres  
Description: "What is Realism?" Is realism a literary style or an outlook on the world? Literary histories present it as the opposite of modernism -- deadpan, earnest, ?political? At the same time, modernism is said to be experimental and formally innovative. But the sheer variety of realism over the last century and a half -- Italian neo-realism, magical realism, socialist realism, naturalism, the new objectivity, painterly super-realism, critical realism -- seems to fly in the face of that accepted view, and point to something much richer and more flexible. Realism has been associated with muck-raking novels of social protest, expeditions into society?s lower depths, and with the historical novel as such. Its range of expressive modes rises as novels from Africa, Latin America, and Asia force their way onto the Western bookshelf, for many of them register as realist. So what is the quality in literature we call ?realism?, and what is it capable of producing? What is its future in the new world republic of letters? The course is constructed to give us ample time to dwell on specific problems in fiction, and to follow our observations through with a set of critical theories that form the second dimension of the course readings. Our primary look at narrative, representation, genre, and figural language will give way to questioning of another sort -- one that places realist form itself in a comparative frame. We will read three to four novels (depending on length), and two to three short stories. Our reading schedule will allow us to examine, at a leisurely pace, the intricacies of these works? forms, pausing to comment on the ideology of form itself, and the way that form is conditioned by place, culture, and situation. Our primary task will be to develop a vocabulary and a set of critical options for the close reading of imaginative texts, and we will mostly be involved in basic literary interpretation. Although the final book list is not settled, we are likely to read novels and stories taken from the following list: Honore de Balzac, Lost Illusions; Machado di Asis, The Posthumous Memoirs of Bras Cubas; Gustave Flaubert, Sentimental Education; Richard Wright, Native Son; Thomas Mann, Tonio Kroger; Theodor Dreiser, An American Tragedy; I. Gladkov, Cement; Christa Wolf, The Quest for Christa T.; Abdelrahaman Munif, Cities of Salt; Roberto Bola?o, The Savage Detectives; and selected shortstories by Jorge Luis Borges, Leo Tolstoy, or Anton Chekhov. We may look at ?realism? as related genres as well: for example, the paintings of Geli Korzhev. Some of the relevant theory and criticism includes essays by Brecht, Lukacs, Bloch, Candido, Schwarz, Williams, Carpenter, Calvino, Chamoiseau, and Bourdieu. Requirements: One or two smaller essays (3-pages), and one final essay.  
Style: 30% Lecture, 40% Discussion, 30% Student Presentation.  
Grading: 50% reports/papers, 20% in-class presentation, 30% class participation.

ENGL 8150 Seminar in Shakespeare: Shakespearian Comedy  
3 credit(s), max credits 9, 3 repeats allowed;  
Instructor: Scheil, Katherine West  
Description: This course is an in-depth exploration of all of Shakespeare's comedies, from The Comedy of Errors to The Tempest. The class will cover a number of topics, including the following: What is the role of women in the comedies? Do these plays provide a space for exploration of female power or do they demonstrate containment of that power? What is the relationship between the comedies and their social context? How does the role of theatre intersect with the work of the plays? What issues recur in the comedies, and how would one define ?Shakespearian comedy?? How has the performance history of each play shifted, and according to what factors? Through a series of secondary readings, students will experience the wide variety of critical approaches to Shakespeare's plays, and the numerous ways the plays have been discussed, analyzed, and performed, from editorial work to theatre history, from ideas of the Renaissance body to social and political issues. The class will attend a performance of The Two Gentlemen of Verona at the Guthrie Theatre.

ENGL 8200 Seminar in American Literature: The First American Novels
ENGL 8300 Seminar in American Minority Literature: Race and Performance
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Lee, Josephine D
Description: ENGL 8300 Seminar in American Minority Literature Graduate Seminar Spring 2009 Race and Performance Tuesdays 1:00-2:50 p.m., Central Time. This course examines how from Frantz Fanon to Michael Omi and Howard Winant, many have used the terms of theater, such as ?mask, ? ?scene, ? ?acting, and ? ?performance? as broad analogies for how race works in everyday life. Readings will encompass a range of texts, drawn from humanistic, artistic, legal, and social science perspectives, that give insight into these metaphors. We will also look more closely at how theater--as work, practice, and institution rather than simply as metaphor--stages and manages particular kinds of racial encounters not only through their artistic and expressive choices, but also through the behind-the-scenes terms of casting, training, rehearsal, physical spaces, and audience development. Collectively, we will reflect further upon some of the deeper connections that can be made between how race is staged in the theater and how it is performed onstage. This course will be offered to other CIC campuses via CourseShare.
Style: 25% Lecture, 75% Discussion.
Grading: 50% reports/papers, 25% attendance, 25% class participation.

ENGL 8625 Dissertation Seminar: Preparing the Book List and Prospectus
2 credit(s), prereq Engl PhD student in [3rd or 4th yr], at least 12 cr completed;
Instructor: Cucullu, Lois B
Description: Student may contact the instructor or department for information.

ENGL 8626 Dissertation Seminar: Writing the Dissertation
2 credit(s), prereq English PhD student, passed prelim exam;
Instructor: Cucullu, Lois B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Clayton, Tom
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Baxter, Charles Roger
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Sirc, Geoffrey Michael
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Treuer, David Robert
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Damon, Maria
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Ismail, Qadri M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Hirsch, Gordon D
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Weinshheimer, Joel Clyde
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Hancher, Michael
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Lee, Josephine D
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Ellenbein, Andrew
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Schumacher, Julie
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Escure, Genevieve J
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Mowitt, John W
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Messer-Davidow, Ellen
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Griffin, Edward M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Haley, David B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Watkins, John
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Garner, Shirley Nelson
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Fitzgerald, M. J
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Browne, M D
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Hampl, Patricia
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.
ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Brennan, Timothy Andres
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Scandura, Jani
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Curcutu, Lois B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Craig, Siobhan S
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Krug, Rebecca L
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Goldberg, Brian B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Farber, Lianna
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Tinley, Omise’ke Natasha
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Brown, Tony C
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Ch’ien, Evelyn Nien-Ming
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Scheil, Andrew
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Wright, Michelle M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 repeats allowed; prereq instr consent, dept consent;
Instructor: Matar, Nabil I
Description: Student may contact the instructor or department for information.

ENGW 1102 Introduction to Fiction Writing
3 credit(s);
Instructor: STAFF
Description: Introductory course in the art and craft of reading and writing fiction. Students will read a variety of classic and contemporary fiction. Students will be responsible for composing original stories; writing comments on student work; workshop participation; attendance at a literary reading; and a final portfolio of fiction.
Style: 25% Lecture, 50% Discussion.
Exam Format: Revised stories/Final Portfolio

ENGW 1103 Introduction to Poetry Writing
3 credit(s);
Instructor: STAFF
Description: Introductory course in the art and craft of reading and writing poetry. Students will read and analyze contemporary and classic works of poetry while also constructing and revising their own poetry. Students will be responsible for crafting original
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Credit(s)</th>
<th>Max Credits</th>
<th>Repeat Allowed</th>
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<td>ENGW 3104</td>
<td>Intermediate Poetry Writing</td>
<td>STAFF</td>
<td>prereq 1101 or 1103 or dept consent</td>
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<td>This intermediate level course is for writers who have some previous experience in writing poetry. The course will focus on craft and stylistic techniques using writing exercises and readings from a range of poets writing in different forms. The workshop portion of the class will be devoted to developing individual student work; student critiques; some short papers and presentations; attendance at one literary reading; final portfolio of poetry. Style: 25% Lecture, 50% Discussion. workshop. Grading: Revised fiction/final portfolio of fiction.</td>
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<tr>
<td>ENGW 3106</td>
<td>Intermediate Literary Nonfiction Writing</td>
<td>STAFF</td>
<td>prereq 1101 or 1104 or dept consent</td>
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<td>3</td>
<td>This intermediate level course is for students who have some experience writing literary nonfiction: memoir, essay, biography, etc. Students will read and analyze contemporary and classic nonfiction works while also constructing and revising their own nonfiction writing. Written comments on student work, workshop participation, some short papers and presentations, attendance at a literary reading and a final portfolio of nonfiction writing. Style: 25% Lecture, 50% Discussion. Exam Format: Final portfolio of poems.</td>
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<td>ENGW 3110</td>
<td>Topics in Creative Writing: Journaling into Fiction</td>
<td>STAFF</td>
<td>prereq 1101 or 1102 or 1103 or 1104 or dept consent</td>
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<td>Student may contact the instructor or department for information.</td>
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<td>ENGW 5130</td>
<td>Topics in Advanced Creative Writing: Corporealities, Movement, Social Justice</td>
<td>STAFF</td>
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<td>16</td>
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<td>The course investigates the possibilities and implications of artistic work, with particular emphasis on metaphorical bodily practices and intersections of performance and social justice practices. Students examine theories and histories of such intersections within communities of color across global North and South, culminating in a group project.</td>
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<td>ENGW 5202</td>
<td>Journal and Memoir Writing</td>
<td>Kriel</td>
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<td>Students may contact the instructor or department for information.</td>
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<tr>
<td>ENGW 5205</td>
<td>Screenwriting</td>
<td>STAFF</td>
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<td>3</td>
<td>A hands-on advanced workshop for students with experience in creative writing and/or a working knowledge of basic screenplay format. Students’ scripts-in-progress may be either a complete short film or an excerpt from a feature-length film. Class critiques will emphasize issues of imagery, characterization, plot and structure, as well as creative process within screenwriting. Also expect in-class screenings, guests, and nuts and bolts discussion about story pitches, synopses and other vagaries of the professional industry. For advanced undergraduates, graduate students, and writers from the community interested in continuing education. Ask for a permission number in 222 Lind Hall.</td>
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<td>ENGW 5310</td>
<td>Reading as Writers: Flash Forms</td>
<td>STAFF</td>
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<td>ENGW 5606</td>
<td>Literary Aspects of Journalism</td>
<td>STAFF</td>
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<td>3</td>
<td>Credit will not be granted if credit has been received for: JOUR 5606W; Instructor: Roberts, Nancy Lee</td>
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Student may contact the instructor or department for information.

ENGW 5993 Directed Study in Writing 1-4 credit(s), max credits 18, 18 repeats allowed; prereq instr consent, dept consent, college consent; Instructor: STAFF Description: By arrangement with individual faculty. For more information, contact the Creative Writing Program at (612) 625-6366.

ENGW 8110 Seminar: Writing of Fiction: Modernist Baroque 4 credit(s), max credits 16, 4 repeats allowed; prereq dept consent; Instructor: Baxter, Charles Roger Description: We will be studying the techniques of the narrative baroque style, mostly in modernist and post-modernist short fiction, though we will use Hawthorne’s stories as a starting point. We’ll be examining the narrative techniques of digression, ornamentation, chiaroscuro, and fabulism, usually in the service of psychological extremity. Some of the authors whose work we’ll be reading will include Djuna Barnes, Malcolm Lowry, Angela Carter, Edward P. Jones, Aimee Bender, Kathryn Davis, and David Foster Wallace. Weekly annotations will be required.

ENGW 8120 Seminar: Writing of Poetry: Bodies and Knowing 4 credit(s), max credits 8; prereq dept consent; Instructor: Damon, Maria Description: Student may contact the instructor or department for information.

ENGW 8130 Seminar: Writing of Literary Nonfiction 4 credit(s), max credits 8; prereq dept consent; Instructor: Philippop, Daniel J Description: Focused on “Bodies in Place,” this seminar will explore the vibrant literary landscape in contemporary nonfiction that addresses the connection between human bodies and their increasingly threatened, degraded, and transformed nonhuman environments. We will take an expansive view of what constitutes “environmental” writing, examining texts that feature bodies engaged in eating, working, childbearing and other physical acts, as well as the places in which these acts occur. In the process, we will also consider the generic fluidity of such writing and the wide variety of forms in which it occurs, including literary journalisms, memoir and autobiography, nature and science writing, food and travel writing, and the personal essay. Throughout the course we will be engaged in a balancing act, seeking to pay equal attention to the subjects these authors address and to the techniques they use to address them. Likewise, we will attempt to balance our reading and discussion of these texts with reading and discussion of our own works, with the goal being the production of a publishable piece of literary nonfiction that engages our course themes by the end of the term. Likely suspects for reading and discussion include Sandra Steingraber, Michael Pollan, Terry Tempest Williams, David Quammen, Barbara Kingsolver, Richard Nelson, Barry Lopez, and Scott Russell Sanders, as well as some sample essays from a forthcoming collection of personal reflections on Minnesota’s environment.

ENGW 8170 MFA Practicum: EngW 1101W S-N only, 3 credit(s); prereq Creative writing MFA student, instr consent; Instructor: Malloy, Brian Description: Student may contact the instructor or department for information.

Description: Student may contact the instructor or department for information.

ENT 4015 Ornamentals and Turf Entomology 3 credit(s); prereq 1xxx course in bio or hort or forest resources; Instructor: Krischik, Vera Aber Description: This is an introductory course for undergraduate students, graduate students, and professionals with an interest in the management of insects in urban landscapes and in greenhouse, turf and nursery industries. This course examines the principles and implementation of Integrated Pest Management programs to manage pests. IPM is the practice of using a variety of cultural, biological and chemical methods to manage insects. IPM methods include biotic and biological pest controls, monitoring insect populations and the judicious use of chemical pesticides applied at the most vulnerable time in an insect’s life history. Pest life histories, risk potential, and biological control potential are reviewed. One goal of IPM is to reduce any harmful impact chemicals may have on beneficial insects, wildlife or water quality. This is a web-based course using the CUES website (www.entomology.umn.edu/cues) and other IPM resources on the web. The required textbook is V. Krischik and J. Davidson. 2004. IPM of Midwest Landscapes. UMN extension number SB-07645 Questions? try kris001@umn.edu website. Style: 60% Lecture, 5% Discussion, 25% Laboratory. Grading: 20% mid exam, 20% final exam, 30% quizzes, 25% laboratory evaluation, 5% problem solving. Exam Format: Essay and multiple choice

ENT 4096 Professional Experience Program: Internship S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq COAFES jr or sr, complete internship contract available in COAFES Career Services before enrolling, UC only, instr consent; Instructor: STAFF Description: Professional experience in entomology firms or government agencies through supervised practical experience; evaluative reports and consultations with faculty advisors and employers.

ENT 5021 Insect Taxonomy and Phylogeny 4 credit(s); Instructor: Holzenthal, Ralph W Description: This course covers evolution, classification, identification of orders and families of adult insects. The objectives are: 1. To familiarize the student with the characteristics used in the identification of adult insects to a family. 2. To familiarize the student with the evolution and classification of the insect orders. 3. To familiarize the student with the techniques of collecting and curating insects and with reconstructing phylogenies. Text: Borror, D.J., C.A. Triplehorn, N.F. Johnson. 1989. “An Introduction to the Study of Insects”, 6th ed. Saunders College Publishing. Style: 50% Lecture, 50% Laboratory. Grading: 33% mid exam, 33% final exam, 33% quizzes. Exam Format: Essay

ENT 5121 Applied Experimental Design 4 credit(s); prereq Stat 5021 or equiv or instr consent; Credit will not be granted if credit has been received for: AGRO 5121; Instructor: Ehike, Nancy Jo Description: Student may contact the instructor or department for information.

ENT 5361 Aquatic Insects A-F only, 4 credit(s); prereq instr consent; Instructor: Ferrington, Jr., Leonard Charles Description: This course is designed for upper level undergraduate (junior and senior) and graduate students with interests in General Biology, Entomology, Aquatic Ecology, Limnology, Water Resources or Conservation Biology. Course content includes lectures, independent readings, and laboratory and field exercises. Students with no previous formal training in
Entomology are encouraged to enroll, as an overview of basic entomological concepts will be presented during the first few weeks of class. The text will be Merritt & Cummins (eds), "An Introduction to the Aquatic Insects of North America" (1996), and photocopies of selected journal articles will be provided. Lectures will focus on taxonomy, external morphology, life cycles, mating and foraging behaviors, evolution and natural history of insect orders with aquatic species. Lab work will consist of learning to use identification guides and published keys to identify aquatic insects to Order, family, and in some instances, genus. Field exercises will consist of general collecting methods for lake and stream or river sampling, plus qualitative surveys of local habitats. Uses of aquatic insects in determining water quality and impact of pollutants will also be discussed. A collection of aquatic insects, identified to family, is required. This class is web enhanced. URL will be provided first day of class.

**Style:** 50% Lecture, 50% Laboratory. All lectures in Power Point format and electronic copies available to students.

**Grading:** 20% final exam, 20% quizzes, 20% laboratory evaluation, 40% other evaluation. There will be two midterm exams counting 20% each.

**Exam Format:** Take home, with combination of multiple choice and short answer essay.

**ENT 8594 Research in Entomology**
1-6 credit(s), max credits 12; prereq instr consent;
Instructor: Weller, Susan J.
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Ascerno, Mark E
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Cannon, Colleen Ann
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Krischik, Vera Aber
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Mesce, Karen A
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Andow, David
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Kurtti, Timothy J
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Ostlie, Kenneth R
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Radcliffe, Edward B
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Spivak, Marla
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Weller, Susan J
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Radcliffe, Ralph W
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Ascerno, Mark E
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Radcliffe, Ralph W
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Ostlie, Kenneth R
Description: Student may contact the instructor or department for information.

**ENT 8594 Research in Entomology**
S-N only, 1-16 credit(s), max credits 36, 6 repeats allowed;
Instructor: Moon, Roger Dean
Description: Student may contact the instructor or department for information.
ENTR 6020 Business Formation
A-F only, 4 credit(s); prereq MBA student; Instructor: Rao,Dileep R
Description: Students work in a collaborative setting to write a business plan for their own business venture launch, either via a startup or acquisition. The course includes weekly class meetings where each team of students presents various aspects of their business plan as they develop it, such as the elevator pitch, company mission, product/service value proposition, customer and market segmentation, competitive analysis, business strategy, marketing plan and financial projections. Students analyze and provide feedback on each other's plans and learn from each other's analysis. At the end of the course, students present their written business plan.

Objectives
This course is designed to teach students how to write a business plan. The students are introduced to the requirements for a good business plan, and are expected to write and present their plan. Student will work in teams and write a plan for a business startup. Students have to present their business plans in class, and a "consultant" (another student team) is asked to analyze the business plan and make recommendations to the "clients" (the class) on whether or not they should finance or approve the venture. Learning Outcomes
Students will demonstrate knowledge of how to: 1. Write a complete business plan; and 2. Analyze written business plans. Unique Opportunities / Learning Activities This class offers students the opportunity to write a 'reality-based' business plan that is targeted towards venture capitalists. Activities include: - Knowing the various sections of a business plan, - Understanding how investors read business plans and what they read "between the lines," - How to evaluate another team's business plan so as to understand the perspective of the consultant/investment banker, - Present the business plan to raise money, - Career Application and Competencies Developed The contents of this course can be used in a variety of careers, including: - Entrepreneurs interested in finding the resources for high-growth ventures, - Those interested in consulting with new ventures, - Those interested in financing new ventures.

ENTR 6023 Financing Business Ventures
A-F only, 4 credit(s); prereq MBA student; Instructor: Rao,Dileep R
Description: This class is designed to help students understand the perspective of an entrepreneur who is seeking to raise money or an investment banker seeking to help the venture; and that of financiers who could potentially finance the venture. Topics that will be covered include: 1. How to translate a business plan to a financing plan; to develop alternate financing plans for a specific business/plan; choosing the "best" one based on financial and non-financial criteria. 2. Types of non-Fortune 1,000-type businesses -- as financiers view them. 3. Financial institutions in the U.S., what they finance and their financing criteria. 4. Financing instruments used to finance business ventures in the U.S. -- when to use them and why. Objectives To help students achieve an understanding of how America's financing system works for all types of business ventures -- with an emphasis on financing of high-growth ventures. This course is designed for students who are interested in the venture field as potential entrepreneurs interested in starting, joining or acquiring their own businesses; as intermediaries/consultants; or as financiers (equity; debt;
development finance). Learning Outcomes Students will demonstrate understanding of the American financial system, including institutional/individual and debt/equity development to develop the most appropriate financing plan for high-growth or mid-sized businesses. Students will also develop the skills to raise money for all types of new, emerging and growing businesses. The emphasis is on application -- to raise money for the non-Fortune 1000 businesses. Students will develop financial plans to help ventures raise equity, debt or development financing for startups or acquisitions. Unique Opportunities Learning Activities This class offers students the opportunity to understand how entrepreneurs and their advisors can design the best financing plan that combines low-cost development finance, debt and equity; and how venture capitalists, lenders and development financiers evaluate and finance ventures. Unique opportunities include: - Knowing how much equity, debt and development financing a venture can and should obtain. - Applying this knowledge to various cases that are seeking financing. - Listening to financiers who represent venture capitalists, lenders and development financiers, including entrepreneurs who have raised multiple tranches of financing. Career Application and Competencies Developed The contents of this course can be used in a variety of careers, including: - Entrepreneurs developing new ventures. - Investment bankers working with new ventures. - Venture capitalists and lenders financing ventures. - Professionals, such as accountants and attorneys, who work with entrepreneurs.

ENTR 6036 Managing the Growing Business
A-F only, 2 credit(s); prereq MBA student;
Instructor: Cannon, Joel R
Description: Student may contact the instructor or department for information.

ENTR 6037 Corporate Venturing
A-F only, 2 credit(s);
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

ENTR 6041 New Product Design and Business Development
A-F only, 3 credit(s), max credits 6; prereq CSOM student;
Credit will not be granted if credit has been received for: ME 8221;
Instructor: Durfee, William K
Description: See the course web site for a complete description.

ENTR 6041 New Product Design and Business Development
A-F only, 3 credit(s), max credits 6; prereq CSOM student;
Credit will not be granted if credit has been received for: ME 8221;
Instructor: Sapienza, Harry Jack
Description: See the course web site for a complete description.

ENTR 6090 Topics in Entrepreneurship
A-F only, 2 credit(s), max credits 8; prereq CSOM grad student or instr consent;
Instructor: Sapienza, Harry Jack
Description: Student may contact the instructor or department for information.

ENTR 6090 Topics in Entrepreneurship
A-F only, 2 credit(s), max credits 8; prereq CSOM grad student or instr consent;
Instructor: Zahra, Shaker A.
Description: Student may contact the instructor or department for information.

Environmental Sciences, Policy, and Management

ESPM 1011 Issues in the Environment

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;
Instructor: Knight, Joe
Description: This course is an introductory survey of environmental issues that explores the connections between environmental sciences, policy, and management. The course begins by reviewing scientific, ethical, and economic approaches to environmental decision-making, but our primary focus will be scientific. Then we’ll conduct a short review of ecology, focusing on case studies involving threats to biological diversity. Finally, we’ll apply these perspectives to prominent environmental issues, including human population growth, resource consumption, land management (e.g. forestry, agriculture), pollution, and energy use. The course is intended for first-year students majoring in Environmental Sciences, Policy, and Management (ESPM), and for all students who are interested in the environment and wish to satisfy the University’s liberal education themes for Environment and Citizenship/Public Ethics. This course has no prerequisites and is appropriate for students with little or no scientific background.
Style: 60% Lecture, 5% Film/Video, 15% Discussion, 15% Small Group Activities, 5% Guest Speakers. We will have 1-3 guest speakers, depending on availability.
Grading: 27% reports/papers, 18% quizzes, 55% additional semester exams.
Exam Format: Exam format is a mix between multiple choice, true/false, short answer, and short essay.

ESPM 1425 The Atmosphere
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: GEOG 1425; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Griffin, Timothy John
Description: Student may contact the instructor or department for information.

ESPM 1905 Freshman Seminar
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Cooper, Terence H
Description: Student may contact the instructor or department for information.

ESPM 2021 Environmental Sciences: Integrated Problem Solving
A-F only, 3 credit(s); prereq 1011, ESPM major, soph, intro biology course;
Instructor: Cooper, Terence H
Description: Student may contact the instructor or department for information.

ESPM 2041 Natural Resources Consumption and Sustainability
3 credit(s); Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme;
Instructor: Suh, Sangwoon
Description: Trends in national/global population growth, economic growth, and consumption of food, energy, minerals, wood, and other raw materials. Natural resources as raw materials for industry and for economic development. Environmental/economic trade-offs in gathering, processing, and use of natural resources. Balancing consumption of products and services and associated environmental consequences. Environmental impacts of extraction/use of natural resources. Sustainability.
Style: 50% Lecture, 15% Film/Video, 15% Discussion, 10% Small Group Activities, 10% Guest Speakers.
Grading: 20% mid exam, 30% final exam, 20% special projects, 20% quizzes, 10% class participation. A= 90 to 100%; B= 80-89%; C= 70-79%; D= 60-69%; F= less than 60

ESPM 3000 Seminar on Current Issues for ESPM: Essentials of Env Ldshp-Do you have what it takes?
A-F only, 1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Stafford, Susan G
Description: Student may contact the instructor or department for information.
ESPM 3000 Seminar on Current Issues for ESPM: Social & Scientific Issues of Climate Change
A-F only, 1 credit(s); max credits 6, 6 repeats allowed; prereq Jr;
Instructor: Snyder, Peter K
Description: Student may contact the instructor or department for information.

ESPM 3011W Ethics in Natural Resources
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; meets CLE req of Writing Intensive;
Instructor: Blair, Robert B
Description: This course introduces environmental ethics as it is applied to natural resource conservation, management, and policy. It is structured around examining natural resource use in Minnesota from pre-European settlement through today. We cover a range of topics including Native American use of the land, forestry, mining, hunting and agriculture while keeping an eye on how environmental ethics have changed with these uses. Readings include ?Ethics for a Small Planet?; ?Sanding County Almanac?; and a number of primary source articles. The course is oriented to students who will pursue careers in forestry, wildlife and fisheries management; conservation biology; and environmental science policy and management. However, it is a good introduction for anyone interested in environmental issues. The class is hands-on and small group oriented. It requires 20-hours of service learning with an environmental organization in the Twin Cities. Reflections, papers, and presentations are based on this service-learning project.

ESPM 3031 Applied Global Positioning Systems for Geographic Information Systems
A-F only, 3 credit(s); prereq Intro GIS course, [jr or sr]; Credit will not be granted if credit has been received for: ESPM 5031;
Instructor: Jenkins, Andrew Carl
Description: Student may contact the instructor or department for information.

ESPM 3111 Hydrology and Water Quality Field Methods
A-F only, 3 credit(s); prereq 4061 or EEB 4601 or GEO 4601 or FR 3114; Credit will not be granted if credit has been received for: ESPM 5111;
Instructor: Magner, Joe
Description: This course is about applied methods used by the industry to define hydrology and water quality. Most of the time we will be on a field trip to learn about flood forecasting, using water quality sondes, CR10's, auto-samplers, sampling monitoring wells, surveying stream channels and measuring streamflow. You will be required to think & write about system design. Plan on attending at least one weekend field trip in April.
Style: 70% Field Trips, 30% Guest Speakers
Grading: 40% mid exam, 40% final exam, 20% reports/papers.
Exam Format: Take-home, problem solving

ESPM 3131 Environmental Physics
A-F only, 3 credit(s); prereq Phys 1101;
Instructor: Mullle, D J
Description: Student may contact the instructor or department for information.

ESPM 3202W Environmental Conflict Management, Leadership, and Planning
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 5202; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Nelson, Kristen C
Description: Student may contact the instructor or department for information.

ESPM 3207 Natural Resource-based Sustainable Development in Costa Rica
3 credit(s); prereq [jr or sr], instr consent; Credit will not be granted if credit has been received for: ESPM 5207;
Instructor: Current, Dean Alan
Description: Student may contact the instructor or department for information.

ESPM 3211 Survey, Measurement, and Modeling for Environmental Analysis
3 credit(s); prereq [Math 1031 or Math 1051], [Stat 3011 or FW 4001], computer competency; Credit will not be granted if credit has been received for: ESPM 5211;
Instructor: Ek, AlanRyan
Description: Student may contact the instructor or department for information.

ESPM 3221 Soil Conservation and Land-Use Management
3 credit(s); prereq SOIL 1125 or 2125 or instr consent;
Instructor: Wheeler, Daniel B
Description: Student may contact the instructor or department for information.

ESPM 3241W Natural Resource and Environmental Policy: History, Creation, and Implementation
3 credit(s); Credit will not be granted if credit has been received for: ESPM 5241; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Becker, Dennis R
Description: This course examines the political and administrative processes at play in the use of natural resources and protection of the environment. The focus is on exposing students to the processes by which fundamental disagreements over how the conservation and management of natural resources are addressed by different stakeholders, private-sector interests, government agencies and institutions, communities, and non-profit organizations. The course develops student understanding of and appreciation for the fundamental concepts of natural resource policy, the policy process, and social science methodologies used to assess policy choices. Relevant laws and institutions will be reviewed. Student will also be exposed to basic scientific tools and techniques for developing policy alternatives, evaluating existing natural resource policies, and methodologies for monitoring and adaptive management. Students will apply these concepts and scientific principles to a variety of contemporary issues through individual written assignments and team projects exploring aspects of problem definition, data collection, and the accretion of knowledge.
Style: 35% Lecture, 45% Discussion, 20% Small Group Activities. Group and individual problem solving activities
Graduation: 15% mid exam, 25% final exam, 15% reports/papers, 25% special projects, 15% quizzes, 5% class participation.
Exam Format: Some multiple choice and true/false with justification; focus is on essay questions

ESPM 3480 Topics in Natural Resources: Community based Nat Res Mgmt: An Int'l Perspective
1-4 credit(s), max credits 6, 6 repeats allowed;
Instructor: Current, Dean Alan
Description: This 1-credit seminar offered in the spring presents perspectives on sustainable resource use and management by communities in developed and developing countries, including the integration of social, economic, and policy considerations related to natural resource management. Overviews of various forms of community forests: User Group Forestry, Urban Forestry, Private Forestry, Social Forestry, Communal Concessions and Community Conservancy will be presented and discussed. Major issues related to community managed forest resources will be compared and contrasted in the developed and developing world.

ESPM 3575 Wetlands Conservation
3 credit(s); Credit will not be granted if credit has been received for: ESPM 5575;
Instructor: Landwehr, Tom John
Description: This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**Style:** 75% Lecture, 5% Small Group Activities, 5% Student Presentation, 5% Field Trips, 10% Guest Speakers.

**Grading:** 15% mid exam, 30% final exam, 10% reports/papers, 20% special projects, 15% additional semester exams, 10% class participation.

**ESPМ 3601 Our Home, Our Environment**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: DHA 4382; Instructor: Dolata, Rosemary Dawn

**Description:** Student may contact the instructor or department for information.

**ESPМ 3602 Regulations and Corporate Environmental Management**

A-F only, 3 credit(s); prereq APEC 1101 or ECON 1101 or 3261W; Credit will not be granted if credit has been received for: ESPM 5602;

**Instructor:** STAFF

**Description:** Students will learn the basic principles and evolution of environmental regulatory development and implementation at U.S. national, state, and local levels as well as some introduction to international regulations. The course will emphasize the perspectives of the various stakeholders concerned with regulatory and non-regulatory responses to the perceived threats to environmental health. In particular, students will gain insight into the issues corporations need to deal with to achieve successful environmental management.

**ESPМ 3605 Recycling: Extending Raw Materials**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 5605;

**Instructor:** Tschirner, Ulrike Waltrau


**ESPМ 4021W Problem Solving: Environmental Review**

4 credit(s); prereq Jr or sr; Meets CLE req of Writing Intensive;

**Instructor:** Cooper, Terence H

**Description:** Student may contact the instructor or department for information.

**ESPМ 4093 Directed Study**

1-7 credit(s), max credits 20, 20 repeats allowed; prereq instr consent;

**Instructor:** Nater, Ed

**Description:** Student may contact the instructor or department for information.

**ESPМ 4093 Directed Study**

1-7 credit(s), max credits 20, 20 repeats allowed; prereq instr consent;

**Instructor:** Cooper, Terence H

**Description:** Student may contact the instructor or department for information.

**ESPМ 4093 Directed Study**

1-7 credit(s), max credits 20, 20 repeats allowed; prereq instr consent;

**Instructor:** Bloom, Paul Ronald

**Description:** Student may contact the instructor or department for information.

**ESPМ 4094 Directed Research**

1-7 credit(s), max credits 7, 7 repeats allowed; prereq instr consent;

**Instructor:** Nater, Ed

**Description:** Student may contact the instructor or department for information.

**ESPМ 4096 Professional Experience Program: Internship**

1 credit(s), max credits 6, 6 repeats allowed; prereq CFANS undergrad, instr consent, completed internship contract;

**Instructor:** Cooper, Terence H

**Description:** Student may contact the instructor or department for information.

**ESPМ 4200H Honors Seminar**

A-F only, 1 credit(s); prereq ENR upper div honors, instr consent;

**Instructor:** STAFF

**Description:** Student may contact the instructor or department for information.

**ESPМ 4256 Natural Resource Law and the Management of Public Lands and Waters**

A-F only, 3 credit(s); prereq 3241 or instr consent; Credit will not be granted if credit has been received for: ESPM 5256;

**Instructor:** Enzler, Sherry Anne

**Description:** Student may contact the instructor or department for information.

**ESPМ 4607 Industrial Biotechnology and the Environment**

A-F only, 2 credit(s); prereq BIOL 1009, CHEM 1021; Credit will not be granted if credit has been received for: ESPM 5607;

**Instructor:** Sarkanen, Simo

**Description:** The course will provide the fundamental background for students who are not in science or engineering to understand the following: Biomass utilization and biobased products development; Conversion of renewable raw materials to nonfood/nonfeed commodity products and biofuels; Fundamental molecular biological applications to industrial problems; Assessment of environmental consequences of biobased products utilization; Biocatalysis and its relevance to biobased products and biofuels production; Emerging and future biotechnological developments in industry

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 70% quizzes, 30% class participation.

**ESPМ 4801H Honors Research**

A-F only, 2 credit(s); prereq ENR upper div honors, instr consent;

**Instructor:** STAFF

**Description:** Student may contact the instructor or department for information.

**ESPМ 4802H Honors Research**

A-F only, 2 credit(s); prereq ENR upper div honors, instr consent;

**Instructor:** STAFF

**Description:** Student may contact the instructor or department for information.

**ESPМ 4811 Environmental Interpretation**

A-F only, 3 credit(s); prereq Jr or sr or grad student; Credit will not be granted if credit has been received for: ESPM 5811;

**Instructor:** Carlson, Stephan Paul

**Description:** Student may contact the instructor or department for information.

**ESPМ 5031 Applied Global Positioning Systems for Geographic Information Systems**

A-F only, 3 credit(s); prereq Grad student or instr consent credit will not be granted if credit received for: Biol 5501; Credit will not be granted if credit has been received for: ESPM 3031;

**Instructor:** Jenks, Andrew Carl

**Description:** Student may contact the instructor or department for information.

**ESPМ 5111 Hydrology and Water Quality Field Methods**

A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for:
ESPM 5202 Environmental Conflict Management, Leadership, and Planning
A-F only, 3 credit(s); prerequisite Grad student or instructor consent; Credit will not be granted if credit has been received for: ESPM 3202W; Instructor: Nelson, Kristen C
Description: Student may contact the instructor or department for information.

ESPM 5207 Natural Resource-based Sustainable Development in Costa Rica
3 credit(s); prerequisite Grad student or instructor consent; Credit will not be granted if credit has been received for: ESPM 3207; Instructor: Current, Dean Alan
Description: Student may contact the instructor or department for information.

ESPM 5211 Survey, Measurement, and Modeling for Environmental Analysis
3 credit(s); prerequisite Grad student or instructor consent; Credit will not be granted if credit has been received for: ESPM 3211; Instructor: Ek, Alan Ryan
Description: Student may contact the instructor or department for information.

ESPM 5241 Natural Resource and Environmental Policy: History, Creation, and Implementation
3 credit(s); prerequisite Grad student or instructor consent; Credit will not be granted if credit has been received for: ESPM 3241W; Instructor: Becker, Dennis R
Description: This course examines the political and administrative processes at play in the use of natural resources and protection of the environment. The focus is on exposing students to the processes by which fundamental disagreements over how the conservation and management of natural resources are addressed by different stakeholders, private-sector interests, government agencies and institutions, communities, and non-profit organizations. The course develops student understanding of and appreciation for the fundamental concepts of natural resource policy, the policy process, and social science methodologies used to assess policy choices. Relevant laws and institutions will be reviewed. Student will also be exposed to basic scientific tools and techniques for developing policy alternatives, evaluating existing natural resource polices, and methodologies for monitoring and adaptive management. Students will apply these concepts and scientific principles to a variety of contemporary issues through individual written assignments and team projects exploring aspects of problem definition, data collection, and the accrual of knowledge.
Style: 35% Lecture, 45% Discussion, 20% Small Group Activities. Group and individual problem solving activities
Grading: 15% mid exam, 25% final exam, 15% reports/papers, 25% special projects, 15% quizzes, 5% class participation.
Exam Format: Some multiple choice and true/false with justification; focus is on essay questions

ESPM 5256 Natural Resource Law and the Management of Public Lands and Waters
A-F only, 3 credit(s); prerequisite 3241, [sr or grad student]; Credit will not be granted if credit has been received for: ESPM 4256; Instructor: Enzler, Sherry Anne
Description: This course is about applied methods used by the industry to define hydrology and water quality. Most of the time we will be on a field trip to learn about flood forecasting, using water quality sondes, CR10's, auto-samplers, sampling monitoring wells, surveying stream channels and measuring streamflow. You will be required to think & write about system design. Plan on attending at least one weekend field trip in April.
Style: 70% Field Trips, 30% Guest Speakers
Grading: 40% mid exam, 40% final exam, 20% reports/papers.
Exam Format: Take-home, problem solving

ESPM 5480 Topics in Natural Resources: Community based Nat Res Mgmt: An Int'l Perspective
1-4 credit(s), max credits 6, 6 repeats allowed; prerequisite Sr or grad student; Instructor: Current, Dean Alan
Description: This is a 1-credit seminar offered in the spring presenting perspectives on sustainable resource use and management by communities in developed and developing countries, including the integration of social, economic, and policy considerations related to natural resource management. Overviews of various forms of community forests: User Group Forestry, Urban Forestry, Private Forestry, Social Forestry, Communal Concessions and Community Conservation will be presented and discussed. Major issues related to community managed forest resources will be compared and contrasted in the developed and developing world.

ESPM 5601 Principles of Waste Management
A-F only, 3 credit(s); prerequisite 1125 or 2125, Biol 1002/1009 or Chem 1021, Stat 3011, ApEc 1101 or instructor consent; Instructor: Halbach, Thomas R
Description: Student may contact the instructor or department for information.

ESPM 5602 Regulations and Corporate Environmental Management
A-F only, 3 credit(s); prerequisite APEC 1101 or ECON 1101; Credit will not be granted if credit has been received for: ESPM 3602; Instructor: STAFF
Description: Students will learn the basic principles and evolution of environmental regulatory development and implementation at U.S. national, state, and local levels as well as some introduction to international regulations. The course will emphasize the perspectives of the various stakeholders concerned with regulatory and non-regulatory responses to the perceived threats to environmental health. In particular, students will gain insight into the issues corporations need to deal with to achieve successful environmental management.

ESPM 5605 Recycling: Extending Raw Materials Supplies
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 3605; Instructor: Tschirner, Ulrike Waltrau

ESPM 5607 Industrial Biotechnology and the Environment
A-F only, 3 credit(s); prerequisite BIOL 1009, CHEM 1021, grad student; Credit will not be granted if credit has been received for: ESPM 4607; Instructor: Sarkanen, Simo
Description: The course will provide the fundamental background for students who are not in science or engineering to understand the following: Biomass utilization and biobased products development; Conversion of renewable raw materials to nonfood/nonfeed commodity products and biofuels; Fundamental molecular biological applications to industrial problems; Assessment of environmental consequences of biobased products utilization; Biocatalysis and its relevance to biobased products and biofuels production; Emerging and future biotechnological developments in industry
Style: 80% Lecture, 20% Discussion
Grading: 30% reports/papers, 50% quizzes, 20% class participation.

ESPM 5811 Environmental Interpretation
A-F only, 3 credit(s); prerequisite Grad student or instructor consent; Credit will not be granted if credit has been received for: ESPM 4811; Instructor: Carlson, Stephen Paul
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Experimental and Clinical Pharmacology
7-159 WDH

ECP 5620 Drug Metabolism and Disposition
A-F only, 3 credit(s); prereq Grad student or instr consent;
Instructor: Tracy,Tim
Description: Student may contact the instructor or department for information.

ECP 8100 Seminar
1 credit(s), max credits 8, 8 repeats allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Johnson Ph.D,L'Aurelle Anna Lee
Description: Student may contact the instructor or department for information.

ECP 8420 Clinical Trial Simulation
2 credit(s); prereq SACP grad major in ECP track or instr consent;
Instructor: Birnbaum PhD,Angela K
Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 8, 4 repeats allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Brundage,Richard
Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 8, 4 repeats allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Noreddin PhD,Ayman M
Description: Student may contact the instructor or department for information.

ECP 8992 Directed Readings in Experimental and Clinical Pharmacology
1-2 credit(s), max credits 4, 4 repeats allowed;
Instructor: Peterson,Marnie Lorraine
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Brundage,Richard
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Mann, Henry J
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Jacobson,Pamala Ann
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Noreddin PhD,Ayman M
Description: Student may contact the instructor or department for information.

Family Medicine and Community Health
6-240 Phillips-Wangensteen (MMC 381)

FMCH 5345 Curriculum Design and Teaching Strategies for Medical Education I
A-F only, 3 credit(s); prereq concurrent enrollment in 5346, instr consent;
Instructor: Bland, Carole Jeanne
Description: Student may contact the instructor or department for information.

FMCH 5346 Curriculum Design and Teaching Strategies for Medical Education II
A-F only, 1 credit(s); prereq concurrent registration is required (or allowed) in 5345, instr consent;
Instructor: Bland, Carole Jeanne
Description: Student may contact the instructor or department for information.

FMCH 5961 Family Medicine Fellows and Junior Faculty Integration Seminar
A-F only, 1-9 credit(s), max credits 9, 9 repeats allowed;
prereq [Family medicine faculty or fellow], instr consent;
Instructor: Bland, Carole Jeanne
Description: Student may contact the instructor or department for information.

Family Policy Minor

FPOL 8000 Family Policy Perspectives
A-F only, 3 credit(s);
Instructor: Bauer, Jean W
Description: Student may contact the instructor or department for information.

Family Social Science
290 McNeal Hall

FSOS 1101 Intimate Relationships
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Mendenhall PhD, Tai Justin
Description: Intimate Relationships is a course that focuses on the interpersonal dynamics of couples, and on the dynamics of couples in-context. We will explore how intimate relationships evolve and develop and how they succeed or fail. We will talk about a variety of important relationship topics and skills, including dating, hooking-up, cohabitation, marriage, sexual orientation, gender roles & power, communication & conflict resolution, relationship problems (e.g., abuse, infidelity, divorce), and couple enrichment/couples therapy. The course's principal goal is to provide an overview of these and related topics, and to help you gain a deeper appreciation and awareness of their importance.
Style: 50% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities.
Grading: 33% final exam, 33% reports/papers, 33% quizzes.
Exam Format: Multiple Choice + Essay

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
FSOS 2101 Human Development in Families: Lifespan
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Gewertz, Abigail
Description: This course provides a survey of human development in a family context while emphasizing the role of diversity in shaping family environments. Using life course theory and human development theories, the course addresses the interlocking paths of individual and family development, beginning with birth and continuing through the life cycle. It addresses the basic processes involved in physical, cognitive, language, social, and personality development and how they are interrelated. It interweaves the ways in which historical, social, and cultural factors, including ethnicity, gender, class and sexual orientation, influence family context, which in turn, influences individual development. The course is strongly grounded in theory and research, but also explores how theory and research findings are applied to everyday lives. Class lectures and discussions will not simply repeat the material in the textbook or readings. We will use class time to go beyond the readings, focusing on specific issues about families and development and exploring points of current interest and controversy. We will also examine social science data on current issues in development to understand how theories are applied in developmental research. Students will work individually and in small groups to evaluate findings in developmental research, and to apply a developmental lifespan perspective to major issues in today's society. This course is designed for undergraduates who seek a broad introduction to human development in family contexts across the entire lifespan. It is especially relevant for students interested in human services career paths. This course fulfills liberal education requirements for the Social Science core and the Diversity and Social Justice theme.
Style: 40% Lecture, 15% Film/Video, 20% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

FSOS 1301 Cash or Credit: You Need to Know
A-F only, 1 credit(s); prereq Fr or soph or PSEO;
Instructor: Zuiker, Virginia Solis
Description: College students are referred to as "America's newest class of debtors" by the media. They are targeted for easy-to-get credit cards and also may have large student loans. FSoS 1301 is a course that provides PSEO students, freshmen and sophomore students with factual information about basic money management skills. The great thing about this class is that the topics covered in class can be applied to every day life, even the life that exists outside of college. This is an on-line, interactive learning based class.
Style: 100% Web Based. Distance learning, web-based
Grading: 40% reports/papers, 60% quizzes.
Exam Format: Multiple choice

FSOS 2101 Preparation for Working With Families
A-F only, 2 credit(s);
Instructor: Goodman, William Joseph
Description: This course is designed to be a systematic preparation for upper division education, research and field internships, and career possibilities in Family Social Science. Central to the focus of this course is also the advancement of students' thinking power by utilizing five levels of thinking outlined by Bloom, 1956. These five levels: knowledge, comprehension, application, analysis, evaluation, and synthesis are used in responding to the course text, "Becoming a Helper" by Marianne and Gerald Corey (2007) and workbook assignments. Book and class topics include the following: Are the Helping Professions for You? Getting the Most from Your Education and Training, Stages in the Helping Process, Common Concerns of Beginning Helpers, Ethical Issues Facing Helpers, Values and the Helping Relationship, Cultural Diversity in the Helping Professions, Working in the Community, Working with Groups, Working with the Family, Understanding Life Transitions, Stress and Burnout, and The Challenge of Retaining Your Vitality. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB.
Style: 20% Lecture, 40% Discussion, 20% Laboratory.
Grading: PLEASE NOTE that this course uses Contract Grading

FSOS 2103 Family Policy
3 credit(s);
Instructor: Haberman, Heather Rae
Description: Student may contact the instructor or department for information.

FSOS 2105 Methods in Family Research
3 credit(s); prereq PSTL 1004 or STAT 1001 or OMS 2550 or ESPY 3324 or STAT 3311 or PSY 4801 or instr consent;
Credit will not be granted if credit has been received for:
FSOS 4105;
Instructor: Rueter, Martha A
Description: Student may contact the instructor or department for information.

FSOS 2191 Independent Study in Family Social Science
1-4 credit(s), max credits 12, 12 repeats allowed; prereq Soph, instr consent;
Instructor: STAFF
Description: The independent study course is for field, library, and laboratory research in Family Social Science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 3101 Personal and Family Finances
3 credit(s); prerequisite At least soph or instr consent;
Instructor: Zuiker, Virginia Solis
Description: This course is an analysis of personal and family financial management principles. Students will learn concepts pertaining to the financial planning of savings, investments, credit, mortgages, taxation, life, disability, health, and property insurance; public, private pensions, and estate planning. This course focuses on personal and family finances, not corporate or government finances. It is designed to be applicable to the student's personal life decisions and his/her professional role. This course will address financial pitfalls, economic security, and ways to accumulate wealth. Undergraduate students, students majoring in Family Social Science, and students from other majors are welcome to and could learn from this class.
Style: 25% Lecture, 25% Discussion, guest speaker
Grading: 26% mid exam, 32% final exam, 10% quizzes, 32% other evaluation. Personal financial portfolio
Exam Format: multiple choice

FSOS 3101 Personal and Family Finances
3 credit(s); prerequisite At least soph or instr consent;
Instructor: Katras, Mary Jo Bartl
Description: This is a three-credit core course in the Family Social Science bachelor's major. It is required for the major and is also appropriate for those who are interested in gaining practical knowledge of personal finance. This course focuses on personal and family finances, not corporate or government finances. It will address financial pitfalls such as too much debt and investing scams. However, the focus is on financial strategies and tools, economic security, and ways to build assets.
Style: 100% Web Based.
Grading: 25% final exam, 15% quizzes. Weekly on-line discussion--15% Case Applications--15% Personal Financial Planner--30%
Exam Format: Multiple Choice

FSOS 3102 Family Systems and Diversity
3 credit(s); prerequisite At least soph or instr consent;
Credit will not be granted if credit has been received for: FSOS 5101; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Xiong PhD, Zha Blong
Description: This course examines family systems across the lifespan using a variety of family theories (i.e., the family systems theory, the human ecology theory, the family development theory, etc.). It introduces students to diversity issues related to
gender, class, ethnicity/race, sexual orientation, disability, as well as emergent family forms (i.e., cohabitation, divorce, single parenthood, and remarriage) in the context of the latest research.

FSOS 3102 Family Systems and Diversity
3 credit(s); prerequisite: At least Soph or instr consent; Credit will not be granted if credit has been received for: FSOS 5101; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Haberman, Heather Rae
Description: In this course students will apply family systems theory and other family theories to dynamics/processes relevant to family life. Diversity issues related to gender, ethnicity, sexual orientation, disability as well as emergent family forms (cohabitation, divorce, single parenthood, and remarriage) will be discussed in the context of the latest research. Discussions include how social scientists describe and analyze human experiences and behavior; study the interrelationships among individuals, institutions, structures, events, and ideas. Students will gain an understanding of the roles individuals and families play in their historical, cultural, social, economic, and political worlds as well as an understanding of the roles gender, ethnicity, and race play in structuring the human experience in (and development of) the social and cultural fabric of the United States.

FSOS 3104 Global and Diverse Families
3 credit(s); prerequisite: At least Soph or instr consent; Credit will not be granted if credit has been received for: FSOS 4102; Instructor: Xiong, Ph.D., Zha Blong
Description: This course examines perspectives on family dynamics of various racial/ethnic populations in the United States and other countries in the context of national/international economic, political, and social processes. Objectives are: a. To know the basics for understanding the family life of people in various cultures and various racial/ethnic groups as they might understand it themselves. b. To recognize personal, social, cultural, mass media, and other barriers to understanding the family life of people in various cultural, racial and ethnic groups. c. To recognize key ways family and kin are important to people in various cultural, racial and ethnic class groups. d. To understand key dynamics and effects on families of various “isms” (racism, sexism, ethnocentrism, ageism, heterosexism), privilege, discrimination, obliviousness and ignorance. e. To understand key effects of families around the world of governmental policies of the U.S. and of other international governments. f. To understand important elements and consequences of personal and institutionalized racism.

FSOS 3104 Global and Diverse Families
3 credit(s); prerequisite: At least Soph or instr consent; Credit will not be granted if credit has been received for: FSOS 4102; Instructor: Rosenblatt, Paul C
Description: Perspective on family dynamics of various racial/ethnic populations in the United States and other countries in the context of national and international economic, political, and social processes. Topics include learning how to understand other individuals and cultures in their own terms and in terms of local, national, and world wide systems; human rights issues; gender and sexual orientation in cross-cultural perspective; theories about racism, privilege, and whiteness; African-American families; American Indian families; Mexican-American families; Hmong and other recent immigrant families from Southeast Asia; Somali and other recent immigrant families from Northeast Africa; population policy; and economic, monetary, and trade policy. Style: 40% Lecture, 35% Film/Video, 25% Discussion videos and discussion of videos
Grading: 44% final exam, 11% reports/papers, 44% quizzes.
Exam Format: choice between essay and mostly multiple choice

FSOS 3191 Independent Study in Family Social Science
1-5 credit(s); max credits 12, 12 repeats allowed; prerequisite: Jr, instr consent; Instructor: STAFF

FSOS 3426 Alcohol and Drugs: Families and Culture
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5426; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Jankord, John Lamont
Description: This course provides an integrated overview of the psychology and sociology of psychoactive drug use, abuse, addiction, and evidenced-based treatment approaches in contemporary American society. The complex relationships between individual, group, and socio-cultural dimensions of drug using behavior will be explored. Special attention is given to variables of ethnicity, gender, sexuality, and social class. The bio-psycho-socio-cultural model is used to conceptualize addiction and its treatment. Lectures, readings, large and small group discussions and projects, and individual research and writing projects are used to advance the student knowledge and understanding.
Style: 29% Lecture, 14% Film/Video, 18% Discussion, 14% Small Group Activities, 15% Student Presentation, 10% Guest Speakers.
Grading: 12% mid exam, 12% final exam, 15% attendance, 8% journal, 32% reflection paper, 6% in-class presentation, 15% class participation.
Exam Format: There will be two exams during the semester. These exams will consist of approximately 35-45 questions that take the form of multiple choice, true/false, and short answer.

FSOS 3426 Alcohol and Drugs: Families and Culture
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5426; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Craveiro, Michelle Ann
Description: This course provides an integrated overview of the psychology and sociology of psychoactive drug use, abuse, addiction, and evidenced-based treatment approaches in contemporary American society. The complex relationships between individual, group, and socio-cultural dimensions of drug using behavior will be explored. Special attention is given to variables of ethnicity, gender, sexuality, and social class. The bio-psycho-socio-cultural model is used to conceptualize addiction and its treatment. Lectures, readings, large and small group discussions and projects, and individual research and writing projects are used to advance the student knowledge and understanding.
Style: 29% Lecture, 14% Film/Video, 18% Discussion, 14% Small Group Activities, 15% Student Presentation, 10% Guest Speakers.
Grading: 12% mid exam, 12% final exam, 15% attendance, 8% journal, 32% reflection paper, 6% in-class presentation, 15% class participation.
Exam Format: There will be two exams during the semester. These exams will consist of approximately 35-45 questions that take the form of multiple choice, true/false, and short answer.

FSOS 3429 Counseling Skills Practicum I
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5429; Instructor: Meyer, Cynthia Jo
Description: This course is designed to provide students the listening skills necessary to establish a helping relationship and to promote the personal growth and development of people they will see in their future work. It helps students develop skills that are critical in helping other people, including individuals, couples and families. Through class lecture, practice, written exercises, and discussion, this course focuses both on self-awareness about one’s desire to help others as well as developing basic skills in helping others.
Style: 50% Lecture, 20% Discussion, skills practice
Grading: 30% final exam, 25% reports/papers, 10% special projects, 15% class participation, 20% other evaluation.
University of Minnesota - Course Guide for Twin Cities Campus
Spring 2009

Homework assignments
Exam Format: multiple choice and short essay

FSOS 4101 Sexuality and Gender in Families and Close Relationships
3 credit(s); prereq At least jr or instr consent;
Instructor: Meyer, Cynthia Jo
Description: Sexuality and Gender in Families and Close Relationships provides students an opportunity to learn about current research in the field of sexuality, develop comfort applying this information in professional settings, utilize and develop critical thinking skills to examine evidence and biases in the field of sexual science, and to clarify and confirm sexual values as well as understand the impact these values have on one's personal and professional relationships. A variety of topics will be covered including family communication and sexuality education, body image, gender development and development of gender roles, sexuality research, developing healthy sexuality in children, adolescent sexuality, attraction and intimacy, mate selection and other sexuality related topics of importance to relationships and families.
Style: 60% Lecture, 30% Discussion. small group presentations and film
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 10% special projects, 10% class participation.
Exam Format: multiple choice

FSOS 4104W Family Psychology
3 credit(s); prereq At least jr or instr consent; Meets CLE req of Writing Intensive;
Instructor: Piescher PhD, Kristine Nicole
Description: This course addresses processes that take place in families of origin, families of choice, and other close relationships within diverse social contexts. Emphasis is placed on evaluating current research on family dynamics within and across generations. Family Psychology is an advanced undergraduate course that graduate students may take with permission. It is assumed that students are familiar with family theories and concepts and with basic principles of social science research. Family Psychology is a writing intensive course. This means the course grade is directly tied to the quality of the student’s writing as well as to knowledge of the subject matter. Students who do not meet the minimal standards of writing competence cannot pass the course. For more information, see the Center for Interdisciplinary Studies of Writing at the web site: http://cisw.cla.umn.edu. Writing assistance is also available at the U of M Writing Support Network.

FSOS 4104W Family Psychology
3 credit(s); prereq At least jr or instr consent; Meets CLE req of Writing Intensive;
Instructor: Haberman, Heather Rae
Description: This course addresses processes that take place in families of origin, families of choice, and other close relationships within diverse social contexts. Emphasis is placed on evaluating current research on family dynamics within and across generations. Family Psychology is an advanced undergraduate course that graduate students may take with permission. It is assumed that students are familiar with family theories and concepts and with basic principles of social science research.

FSOS 4152 Gay, Lesbian, and Bisexual People in Families
3 credit(s); prereq At least jr or instr consent;
Instructor: Craft, Shonda M
Description: Student may contact the instructor or department for information.

FSOS 4154W Families and Aging
3 credit(s); prereq At least jr or instr consent; Meets CLE req of Writing Intensive;
Instructor: Lassig, Sara Lynn
Description: Aging families from diverse socio-economic and cultural groups are examined as complex multigenerational systems interacting within ever-changing social structures. Changing demographics and social/cultural forces have created a unique period where family life includes more elders than ever before. This course provides an overview of aging in our society as it relates to the family system. The emphasis will be on the family as a complex system containing multiple generations. There is a special emphasis on the critical application of family theories to major internal and external issues confronting families with elders in this stage of the life course. Intergenerational family dynamics, late life developmental transitions, relationships and caregiving for frail elders will be investigated. Death, dying, and end-of-life issues will also be examined. Ethnicity, class, and gender are aspects that will be examined from the context of issues that confront families with elders. Students will be using two texts, including the popular seller “Another Country: Navigating the Emotional Terrain of our Elders,” by Mary Pipher. Class discussion is encouraged and the classroom learning environment is built upon mutual learning and teaching by both students and instructor. Guest speakers will also be a part of this course. This course is designed to expand students understanding of intergenerational aging and family issues. Students will have the opportunity to interview an older adult and explore several of the concepts discussed during the course.
Course Objectives: By the end of the course, students will be able to: 1. Summarize demographic trends regarding aging families within US and worldwide and describe the issues this presents world society 2. Identify issues and themes which confront researchers, practitioners and policy makers who work with older families today 3. Critique gerontological and family systems theories as they apply to various elders, their marriages and families, taking into account diverse cultures and contexts 4. Apply conceptual frameworks of symbolic interaction, developmental, systems and human ecology to understand individual, family and community responses to late life issues 5. Apply these conceptual frameworks in constructing either an individual life course narrative or programmatic proposal to address an important issue facing late life families.
Style: 50% Lecture, 5% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Guest Speakers.
Grading: 40% reports/papers, 40% quizzes, 5% attendance, 5% class participation, 10% other evaluation. Webvista discussion is used for this course and accounts for part of the participation grade.
Exam Format: 5 quizzes, with the 4 counting and the lowest score being dropped. Make up quizzes will not be given, but rather that quiz will count as the dropped quiz.

FSOS 4155 Parent-Child Relationships
A-F only, 3 credit(s); prereq At least jr or instr consent;
Instructor: Magistad, Beth Maddock
Description: This course will cover historical and modern theories of parent-child relationships in families across the life span. Students will explore the complexity of parent-child relationships found across families and cultures in the United States. The course has both personal and professional application. This course will be web enhanced with WebCT.
Style: 70% Lecture, 10% Discussion. films, class activities, group work
Grading: 13% mid exam, 13% final exam, 13% reports/papers, 13% special projects, 26% quizzes, 7% in-class presentation, 13% class participation.
Exam Format: Multiple choice

FSOS 4156 Legal-Economic Controversies in Families
3 credit(s); prereq 3101 or instr consent;
Instructor: Rettig PhD, Kathryn K. D.
Description: The purpose of the course is to practice critical thinking applied to controversial family issues in order to develop competencies for effective participation in public decision-making processes. Competencies that are important for letters to editors, legislative testimony, public speeches, and written papers include: stating and analyzing the controversy, understanding types of reasoning, presenting affirmative and negative arguments, separating fact from judgement/beliefs from knowledge, and inductive and deductive reasoning.
Competencies in reasoned public decision making are needed in a world where the issues that confront us are increasingly more complex and unprecedented. The course is intended for
advanced undergraduates and beginning graduate students. It is multi-disciplinary and integrates content of family relationships, family economics and law, family policy, family financial management and decision making. The course is taught by lecture, discussion, small group controversial discussions, argumentation and debate, and written arguments. There are frequent short writing assignments and a final written paper presenting both pro and con arguments for a student-chosen controversy, as well as midterm and final exams.

Style: 20% Lecture, 40% Discussion. Group work, controversy arguments in debate.

Grading: 25% mid exam, 25% final exam, 40% reports/papers, 5% in-class presentation, 5% class participation.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Solheim,Catherine Ann
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Bauer,Jeane W
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Xiong PhD,2ha Blong
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Rosenblatt,Paul C
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Danes,Sharon M
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Goodman,William Joseph
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Zulker,Virginia Solis
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Rettig PhD,Kathryn K. D
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Doherty,William J
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Slum,Marlene Sue
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Ruefer,Martha A
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Gewirtz,Abigail
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Turner,William Lofton
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Dwarkin,Jodi
Description: Student may contact the instructor or department for information.

FSOS 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4; prereq FSoS honors;
Instructor: Craft,Shonda M
Description: Student may contact the instructor or department for information.

FSOS 4191 Independent Study in Family Social Science
1-4 credit(s), max credits 12, 12 repeats allowed; prereq Sr, instr consent ;
Instructor: STAFF
Description: The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 4294 Research Internship
1-4 credit(s), max credits 4, 1 repeat allowed; prereq [FSOS major, at least jr] or instr consent;
Instructor: STAFF
Description: Students work on research projects with Family Social Science faculty that may include research planning, proposal writing, literature review, data collection, data coding and/or cleaning, data analysis and research reporting.

FSOS 4296 Field Study: Working With Families
S-N only, 1-12 credit(s), max credits 12, 4 repeats allowed; prereq [2101, at least jr] or instr consent;
Instructor: Goodman,William Joseph
Description: This course consists of 180 hours of directed paraprofessional work experience related to the student's applied interest. While the unit of focus is on families throughout this course, student involvement in agencies may range from working with the Minnesota State Legislative (Family Policy) to Family Financial Counseling (Family Economics) to Nursing Homes (Family Health Care). A multitude of Minnesota State, National, and International social service agencies are utilized in providing students with an experience that best advances their thinking and working. This course is further designed to integrate the whole of a student's undergraduate work by requiring students to
complete a professional portfolio suitable for use during job interviews upon graduation. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB. This course is for Family Social Science undergraduate majors only.

**Style:** 100% Discussion.

**Grading:** 5% in-class presentation, 5% laboratory evaluation, 90% other evaluation. Community service

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**FSOS 5014 Quantitative Family Research Methods I**

3 credit(s); prereq Grad student or instr consent

**Instructor:** Von Korff, Lynn

**Description:** Family research methods, issues associated with multiple levels of analysis. Conducting family-focused data analyses using basic/intermediate methods (through ANOVA and multiple regression), including power analysis. By the end of the semester, students will... understand the special issues associated with family and relationship research, such as lack of independence of observations and multiple levels of analysis. Evaluate a variety of quantitative family research articles published in journals such as the Journal of Marriage and Family, with an emphasis on understanding methods and results sections. Formulate family related research questions in order to work with an existing quantitative data set. Use SPSS successfully in data analysis (through FSOS 5015 1 credit SS lab) to conduct family-focused data analyses, using basic and intermediate methods (through ANOVA and multiple regression), including power analysis. Prepare written reports, following APA style. Deepen understanding of the ethical issues involved in family research, including functions of IRB and HIPAA. Understand the strengths, limitations, and appropriateness of alternative methods: direct observation, interviewing, self-report questionnaires, rating scales (M). Develop the skills that will lead directly to the production of a successful masters thesis, critical review paper, and/or special project.

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**FSOS 5015 Family Research Laboratory**

S-N only, 1 credit(s); prereq Grad student or instr consent

**Instructor:** Schulz, Cathy L

**Description:** This course is designed to prepare students to conduct and document quantitative research using SPSS. Students will learn SPSS syntax through hands-on instruction completing a series of self-paced SPSS exercises. The sessions include individual and group instruction. Objectives of this course are to (1) develop sound quantitative research practices, such as preparing data for analyses, documenting the research process, and managing SPSS computer files, (2) learn methods of generating SPSS syntax, (3) demonstrate the ability to read, interpret, and describe statistical procedures that address specific research questions, and (4) improve analytical research skills.

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**FSOS 5193 Directed Study in Family Social Science**

1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS or grad student in related field

**Instructor:** STAFF

**Description:** The directed study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

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**FSOS 5426 Alcohol and Drugs: Families and Culture**

3 credit(s); Credit will not be granted if credit has been received for: FSOS 3426

**Instructor:** Jankord, John Lamont

**Description:** This course provides an integrated overview of the psychology and sociology of psychoactive drug use, abuse, addiction, and evidenced-based treatment approaches in contemporary American society. The complex relationships between individual, group, and socio-cultural dimensions of drug use will be explored. Special attention is given to variables of ethnicity, gender, sexuality, and social class. The bio-psycho-social-cultural model is used to conceptualize addiction and its treatment. Lectures, readings, large and small group discussions and projects, and individual research and writing projects are used to advance the student knowledge and understanding.

**Style:** 29% Lecture, 14% Film/Video, 18% Discussion, 14% Small Group Activities, 15% Student Presentation, 10% Guest Speakers.

**Grading:** 12% mid exam, 12% final exam, 15% attendance, 8% journal, 32% reflection paper, 6% in-class presentation, 15% class participation.

**Exam Format:** There will be two exams during the semester. These exams will consist of approximately 35-45 questions that take the form of multiple choice, true/false, and short answer.

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**FSOS 5429 Counseling Skills Practicum I**

3 credit(s); Credit will not be granted if credit has been received for: FSOS 3429

**Instructor:** Meyer, Cynthia Jo

**Description:** This course is designed to provide students the listening skills necessary to establish a helping relationship and to promote the personal growth and development of people they will see in their future work. It helps students develop skills that are critical in helping other people, including individuals, couples and families. Through class lecture, practice, written exercises, and discussion, this course focuses both on self-awareness about one’s desire to help others as well as developing basic skills in helping others.

**Style:** 50% Lecture, 20% Discussion, skills practice

**Grading:** 30% final exam, 25% reports/papers, 10% special projects, 15% class participation, 20% other evaluation.

**Exam assignments**

**Exam Format:** multiple choice and short essay

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**FSOS 8003 Current Issues in Family Science**

3 credit(s);

**Instructor:** Solheim, Catherine Ann

**Description:** Student may contact the instructor or department for information.

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**FSOS 8005 Multicultural Issues in Family Social Science**

3 credit(s);

**Instructor:** Turner, William Lofton

**Description:** Student may contact the instructor or department for information.

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**FSOS 8047 Integrative Research Seminar**

3 credit(s); prereq 8001 or equiv, 8013 or equiv, 8014 or equiv

**Instructor:** Retti, PhD Kathryn K. D.

**Description:**

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**FSOS 8104 Family Policy Seminar**

3 credit(s);

**Instructor:** Solheim, Catherine Ann

**Description:** Student may contact the instructor or department for information.

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**FSOS 8150 Topics in Family Social Science**

1 credit(s), max credits 6, 6 repeats allowed; prereq FSOS grad student or instr consent

**Instructor:** Meyer, Cynthia Jo

**Description:** Student may contact the instructor or department for information.

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**FSOS 8193 Directed Study in Family Social Science**

1-6 credit(s), max credits 12, 12 repeats allowed; prereq Doctoral student in FSOS or related field

**Instructor:** Solheim, Catherine Ann

**Description:** Student may contact the instructor or department for information.

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**FSOS 8193 Directed Study in Family Social Science**

1-6 credit(s), max credits 12, 12 repeats allowed; prereq Doctoral student in FSOS or related field

**Instructor:** Bauer, Jean W

**Description:** Student may contact the instructor or department for information.

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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Xiong PhD, Zha Blong
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Axtell Sara Ann
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Danes Sharon M
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Goodman William Joseph
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Zuker Virginia Solis
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Rettig PhD, Kathryn K. D.
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Doherty William J
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Stum Marlene Sue
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Rueter Martha A
Description: Student may contact the instructor or department for information.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq
Doctoral student in FSOS or related field;
Instructor: Gewirtz Abigail
Description: Student may contact the instructor or department for information.

For information.

FSOS 8297 Clinical Consultation with Couples and Families
S-N only, 3 credit(s); prereq instr consent; required for grad FSoS majors in marriage and family therapy prog;
Instructor: Minor Brier Miller
Description: Student may contact the instructor or department for information.

FSOS 8295 Family Therapy Practicum
S-N only, 1-12 credit(s), max credits 12, 1 repeat allowed; prereq Marriage and family therapy student;
Instructor: Craft Shonda M
Description:

FSOS 8295 Family Therapy Practicum
S-N only, 1-12 credit(s), max credits 12, 1 repeat allowed; prereq Marriage and family therapy student;
Instructor: Craft Shonda M
Description:

FSOS 8296 Family Therapy Internship
S-N only, 1-21 credit(s), max credits 21, 1 repeat allowed; prereq 8295, marriage and family therapy student;
Instructor: Wieling Elizabeth
Description:

FSOS 8297 Supervision of Supervision
S-N only, 1-3 credit(s), max credits 12, 2 repeats allowed; prereq MFT student, instr consent;
Instructor: Minor Brier Miller
Description:

FSOS 8560 Advanced Clinical Topics in Marriage and Family
for information.
University of Minnesota - Course Guide for Twin Cities Campus  Spring 2009

Therapy
A-F only, 3 credit(s), max credits 36, 6 repeats allowed; prereq FSOS PhD student or instr consent ;
Instructor: Wieling, Elizabeth
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Solheim, Catherine Ann
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Grotevant, Harold D
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Bauer, Jean W
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Xiong PhD, Zha Blong
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Rosenblatt, Paul C
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Danes, Sharon M
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Goodman, William Joseph
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Zuker, Virginia Solis
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Pettig PhD, Kathryn K. D
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Doherty, William J
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Stum, Marlene Sue
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Rueter, Martha A
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Geiwirtz, Abigail
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Wieling, Elizabeth
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Dworin, Jodi
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: McCullough, B. Jan
Description: Student may contact the instructor or department for information.

FSOS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS MA student;
Instructor: Craft, Shonda M
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Solheim, Catherine Ann
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Bauer, Jean W
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Description: Student may contact the instructor or department for information.
Instructor: Xiong Ph.D., Zha Blong
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Rosenblatt, Paul C
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Stum, Marlene Sue
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: McCulloch, B. Jan
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Gewirtz, Abigail
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Dworkin, Jodi
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Zuiker, Virginia Solis
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Rettig PhD, Kathryn K. D.
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Goodman, William Joseph
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Doherty, William J
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Rueter, Martha A
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Turner, William Lofton
Description: Student may contact the instructor or department for information.

FSOS 8794 Directed Research in Family Social Science
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad FSOS major;
Instructor: Wieling, Elizabeth
Description: Student may contact the instructor or department for information.

FINA 3001 Finance Fundamentals
A-F only, 3 credit(s); prereq ACCT 2050, OMS 2550; Credit will not be granted if credit has been received for: APEC 3501;
Instructor: STAFF

FINA 4121 Financial Markets and Interest Rates
A-F only, 2 credit(s); prereq 4241;
Instructor: STAFF
Description: Basic framework for valuing fixed income securities. Term structure on interest rates, forward rates, principles of fixed-income valuation. Surveys treasury, corporate, municipal, securitization markets.

FINA 4122 Banking Institutions
A-F only, 2 credit(s); prereq 4241, 4241;
Instructor: STAFF
Description: Managing banking institutions, including commercial banks and thrifts. Theory/practice of banking. Asset management, liability management, capital management. Public policy issues in banking.

FINA 4241 Corporate Financing Decisions
A-F only, 4 credit(s); prereq 3001;
Instructor: STAFF
Description: Theoretical/applied understanding of corporate financial decisions. Efficient markets, financial decisions, tax effects, managerial incentives, investment banking, effect of financing issues on investment decisions, basic options.

FINA 4242 Corporate Investment Decisions
A-F only, 4 credit(s); prereq 4241;
Instructor: STAFF
Description: Focuses on efficiently managing working capital and fixed assets. Cases illustrate some of the topics: working capital management, making capital budgeting decisions, targeting/evaluating firm performance, assessing...
FINA 4321 Portfolio Management and Performance Evaluation
A-F only, 2 credit(s); prereq 4241;
Instructor: STAFF
Description: Introduces investment environment and concepts used to manage security portfolios. Portfolio/security risk/return tradeoffs, portfolio diversification, asset allocation, active portfolio management versus indexed portfolios, portfolio performance evaluation.

FINA 4322 Security Analysis
A-F only, 2 credit(s); prereq 4241;
Instructor: STAFF

FINA 4541 Futures, Options, and Other Derivative Securities
A-F only, 4 credit(s); prereq 4121, 4241, 4321;
Instructor: Graveline, Jeremy J
Description: This course will explore the basic fundamental derivatives contracts and the financial models used to value these contracts. We will introduce the concepts of using derivatives as hedging vehicles in portfolios or as risk management tools in organizations. The study of derivatives is one of the most complex areas in finance. This complexity is manifested in three ways. First, the basic cashflow payoffs of derivative contracts are often complicated to understand or predict. Second, the pricing models used in derivative valuation are more complex than those used for most other financial assets. Many derivative contracts are valued with highly sophisticated mathematical models. And finally, many of the financial models used to value derivatives have demonstrable weaknesses or less than fully accurate underlying assumptions. As a result it is important for the student to realize these limitations and be wary when using derivatives in hedging, investment or risk management applications. Therefore this course will primarily focus on building a strong understanding of the theoretical underpinnings of derivatives valuation, while minimizing mathematical complexity. Students will learn to identify and explain the payoff structures of derivative contracts. Students will also learn how to apply derivative valuation models to option, forward, futures and swaps contracts. Special attention will be paid to the replication of these contracts with cash market instruments.
Style: 70% Lecture. Problem solving. Class will work through examples.
Grading: 30% mid exam, 30% final exam, 10% special projects, 20% problem solving.
Exam Format: Word problems.

FINA 4641 International Finance and Risk Management
A-F only, 4 credit(s); prereq 3001;
Instructor: Bazdresch, Santiago
Description: Introduction to international finance topics: a) foreign currencies, currency exchange rates, and theories of exchange rate determination; b) world capital markets, development country growth and the global trade and financial imbalances. c) international transaction accounting, central bank intervention, currency speculation and currency and sovereign debt crisis; d) international dimensions of capital structure, investment and risk management in general.
Style: 50% Lecture, 25% Discussion, 25% Small Group Activities.
Grading: 30% mid exam, 20% final exam, 20% quizzes, 15% written homework, 15% class participation.

FINA 6121 Debt Markets, Interest Rates, and Hedging
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: STAFF

FINA 6122 Financial Management of Depository Institutions
A-F only, 2 credit(s); prereq MBA 6230; MBA student;
Instructor: Dahl, David
Description: Student may contact the instructor for information.

FINA 6241 Corporate Finance Analysis and Decisions
A-F only, 4 credit(s); prereq MBA 6230, MBA student;
Instructor: STAFF
Description: Theoretical/applied understanding of corporate financial decisions. Adjusted present value, economic value added options. Impact of financing decisions on real asset valuation, managerial incentives, corporate strategy.

FINA 6242 Advanced Corporate Finance Analysis and Decisions
A-F only, 4 credit(s); prereq 6241;
Description: Theory/practice of efficiently managing working capital, fixed assets. Emphasizes mergers/acquisitions, corporate restructuring, real options. Use of derivatives as financing tools, in deal structure.

FINA 6242 Financial Risk Management and Security Analysis
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: Nantell, Timothy J
Description: Student may contact the instructor for information.

FINA 6322 Financial Performance and Security Analysis
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: Wright, Mike
Description: Student may contact the instructor for information.

FINA 6324 Securitization Markets
A-F only, 2 credit(s); prereq 6121;
Instructor: Nelson, Rick
Description: Student may contact the instructor for information.

FINA 6341 World Economy
A-F only, 4 credit(s); prereq MBA 6230, MBA student;
Instructor: STAFF

FINA 6541 Derivatives, Futures, and Options
A-F only, 4 credit(s); prereq 6241, MBA student;
Instructor: Graveline, Jeremy J
Description: Student may contact the instructor for information.

FINA 6621 International Financial Management
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: Le, Thanh Trung
Description: Student may contact the instructor for information.

FINA 6622 Financial Risk Management
A-F only, 2 credit(s); prereq 6121, MBA student;
Instructor: Graveline, Jeremy J
Description: Student may contact the instructor for information.

FINA 6801 Finance Independent Study
1-6 credit(s), max credits 6, 1 repeat allowed; prereq MBA
Schedule

For information.

Student may contact the instructor or department for information.

FIN 8894 Directed Research in Finance
1-8 credit(s); max credits 16, 16 repeats allowed; prereq Business admin PhD student specializing in finance or instr consent;
Instructor: STAFF
Description: Individualized directed research on a project of interest to the student, approved and advised by faculty.

FIN 1004 Intermediate Finnish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: FIN 1002;
Instructor: Tikkkanen,Nina Kristiina
Description: Student may contact the instructor or department for information.

FIN 4004 Intermediate Finnish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: FIN 1004;
Instructor: Tikkkanen,Nina Kristiina
Description: Student may contact the instructor or department for information.

Financial Mathematics
127 Vincent Hall

FM 5002 Preparation for Financial Mathematics II
3 credit(s); prereq 5001, program director approval;
Instructor: Adams,Scot Robert
Description: Student may contact the instructor or department for information.

FM 5012 Mathematical Background for Finance II
4 credit(s); prereq 5011, grad MFM major, program director approval;
Instructor: Cockburn,Bernardo
Description: Student may contact the instructor or department for information.

FM 5022 Mathematical Theory Applied to Finance II
4 credit(s); prereq 5021, [5012 or Concurrent registration is required (or allowed) in 5012], grad MFM major, program director approval;
Instructor: Tolmasky,Carlos
Description: Student may contact the instructor or department for information.

FM 5032 A Practitioner’s Course in Finance II
4 credit(s); prereq 5031, [5022 or Concurrent registration is required (or allowed) in 5022], grad MFM major, program director approval;
Instructor: Adams,Scot Robert
Description: Student may contact the instructor or department for information.

FM 5092 Computation, Algorithms, and Coding in Finance II
3 credit(s); prereq 5091, grad MFM major, program director approval;
Instructor: Proulx,Christopher William
Description: Student may contact the instructor or department for information.

Finnish
205 Folwell Hall

FIN 1002 Beginning Finnish
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: FIN 4002;
Instructor: Listemaa,Jacqueline Dawn
Description: Student may contact the instructor or department for information.

FIN 1004 Intermediate Finnish
5 credit(s); prereq 1003; Credit will not be granted if credit has been received for: FIN 4004;
Instructor: Tikkkanen,Nina Kristiina
Description: Student may contact the instructor or department for information.

FIN 4002 Beginning Finnish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: FIN 1002;
Instructor: Listemaa,Jacqueline Dawn
Description: Student may contact the instructor or department for information.

Fisheries and Wildlife
200 Hodson Hall

FW 2001 Introduction to Fisheries, Wildlife, and Conservation Biology
3 credit(s); prereq Biol 1001 or Biol 1009; Meets CLE req of Environment Theme;
Instructor: Nerbonne,Julia Frost
Description: Student may contact the instructor or department for information.

FW 2003 Introduction to Marine Biology
3 credit(s); prereq Biol 1001 or Biol 1009 or Biol 2012 or GEOL 1006 or instr consent;
Instructor: Sorensen,Peter William
Description: Our planet is nearly three-quarters ocean in which the majority of world’s organisms are found in a wide variety of fascinating and complex ecosystems, most of which are still poorly understood. Understanding these systems is both interesting and important to the survival of our species because terrestrial ecosystems rely on the oceans to maintain environmental balance. This course will provide an introduction

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
to the major themes of life in the oceans including the nature of the ocean and aquatic life, the diversity and ecology of the organisms found in coastal, open and deep seas, and the effects of human civilization on these systems. Selected key advances in the study of marine fishes, marine mammals, global warming and other topics of special interest to basic biology, conservation and society will be addressed in more detail. The overarching goal of the course is to produce well-informed global citizens who understand the basic biology of the planet well enough to pursue scientific and other interests at a higher level.  

Style: 80% Lecture, 10% Discussion.  
Grading: 30% mid exam, 35% final exam, 30% quizzes, 5% class participation.  
Exam Format: multiple choice and short-answer

FW 4701 Fisheries and Wildlife Problem Solving  
2 credit(s); prereq FW sr or grad student or instr consent;  
Instructor: STAFF  
Description: Management problem identification/analysis, information gathering/analysis, oral/written reporting. Selected management issues.

FW 4801H Honors Research  
A-F only, 2 credit(s); prereq FW upper div honors, instr consent;  
Instructor: STAFF  
Description: Independent research project supervised by faculty member.

FW 4802H Honors Research  
A-F only, 2 credit(s); prereq FW upper div honors, instr consent;  
Instructor: STAFF  
Description: Completion of honors thesis. Oral report.

FW 5051 Analysis of Populations  
4 credit(s); prereq [[Biol 3407 or BIOL 3400W], [4001 or STAT 3011 or ESPM 3012], sr] or instr consent;  
Instructor: Arnold,Todd W.  
Description: This course will cover the basics of experimental design and sampling techniques as they relate to wildlife conservation and terrestrial ecology. We will examine methods for estimating population size, population change, and population vital rates (i.e., components of birth, death, immigration, and emigration rates). It is appropriate for seniors or graduate students in FWCB, EEB, Cons Bio, ESPM and others who have a basic understanding of ecology and statistics. The first hour of each class session will be lecture format and the remainder will involve discussion and/or hands-on problem solving.  
Style: 65% Lecture, 30% Laboratory, 5% Student Presentation.  
Grading: 17% mid exam, 17% final exam, 50% reports/papers, 16% written homework. Final exam is non-cumulative.  
Exam Format: Exams will consist of short answer, problem solving, and essay questions.

FW 5401 Fish Physiology and Behavior  
3 credit(s); prereq [[3136 or 5136], grad student] or instr consent;  
Instructor: Sorensen,Peter William  
Description: This course is taught together with FW4401 (see description above) but is intended for graduate students and has an extra writing requirement. Lecture topics include fish sensory systems, behavior, and communication; feeding, growth and bioenergetics; schooling and migration; endocrinology, reproduction and pheromones; and ecotoxicology. In addition, students are required to write a 5-10 page scientific review or research proposal on a topic of their choosing and to give a class presentation on that topic.  
Style: 75% Lecture, 15% Discussion.  
Grading: 30% mid exam, 40% final exam, 10% reports/papers, 10% in-class presentation, 10% class participation.  
Exam Format: short answer/essay

FW 5604W Fisheries Ecology and Management  
3 credit(s); prereq EEB 3603 or EEB 4601 or EEB 5601; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;  
Instructor: Newman,Raymond M  
Description: This is a senior-level major and introductory graduate course; a background in resource ecology is assumed. The course provides a basic coverage of fisheries, ecology and management, with an emphasis on human intervention and regulation of use to achieve management objectives for managed species of interest. We will cover the tools of fisheries management that may be implemented to achieve specific objectives and goals and how to assess their efficacy.
course starts with a general coverage of applied limnology and fish ecology, followed by management approaches and planning, the development of an information base and identification of problems. Approaches to manage fishery populations and habitats will then be covered along with methods to assess management outcomes. Applications to specific fisheries will be demonstrated. A series of homework tasks and problems will be used to develop real-world problem solving skills; problem sets and readings from the primary literature will be discussed in periodic sessions. A paper, that outlines and critiques current management of specific fisheries resource and proposes new strategies, is required; the first draft will be graded and returned for final revision.

Style: 85% Lecture, 15% Discussion.

Grading: 33% mid exam, 22% final exam, 28% reports/papers, 2% class participation, 15% problem solving.

Exam Format: Combination - short answer, true/false, analysis, essay

FW 5625 Wildlife Handling and Immobilization for Research and Management
S-N only, 2 credit(s); prereq General biology, [grad student or vet med student or FW sr];
Instructor: Smith,James L David
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Nelson,Kristen C
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Newman,Raymond M
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Pereira PhD,Donald L.
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Spangler,George R
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Perry,Jim A
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Kapuscinski PhD,Anne R
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Cohen,Yosef
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Adelman,Ira R
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Pastor,John Joseph
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Sorensen,Peter William
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Hornbach,Daniel J
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Vondracek,Bruce
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Richards,Carl
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Simons,Andrew M.
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Ankle,Francesca J
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Cuthbert,Francesca J
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Nelson,Kristen C
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Garshelis,David L
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Del Giudice,Glenn David
Description: Student may contact the instructor or department for information.
FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Mech, Ph.D. L. David
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Jordan, Peter A
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Perry, Jim A
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Cohen, Yosef
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Siniff, Donald B
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Fulton, David C
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instructor consent;
Instructor: Brady, Linda J
Description: This course is completely online and addresses: 1. physiological function and metabolic fate of nutrients ingested by active individuals to improve athletic performance and maintain weight; 2. impact on physiology of ergogenic aids and dietary supplements. An online class orientation via UM Connect will be available on the class website, as well as the syllabus and explanation of website function. Weekly multiple choice quizzes on one chapter are completed online. Short answer critical thinking questions are submitted via the class website each week also. Student materials available online include study guide, power point presentation, and UM Connect presentation for each chapter. Students with some biology or physiology background will have some advantage, as nutrition is multi-disciplinary. This course functions best for students who can manage their time effectively and are comfortable with a mix of multiple choice quizzes and "thought" questions that are more open ended; it does not function well as a 2 credit "add on" to an already busy schedule. We have assignments due the first week, so students who add the class later have some disadvantage.
Style: 100% Web Based. Web based class
Grading: 50% quizzes, 50% reflection paper. short answer critical thinking questions
Exam Format: Quiz format is multiple choice

Food Science and Nutrition
225 Food Science & Nutrition

FSCN 1012 Sports Nutrition
2 credit(s);
Instructor: Brady, Linda J
Description: This course is completely online and addresses: 1. physiological function and metabolic fate of nutrients ingested by active individuals to improve athletic performance and maintain weight; 2. impact on physiology of ergogenic aids and dietary supplements. An online class orientation via UM Connect will be available on the class website, as well as the syllabus and explanation of website function. Weekly multiple choice quizzes on one chapter are completed online. Short answer critical thinking questions are submitted via the class website each week also. Student materials available online include study guide, power point presentation, and UM Connect presentation for each chapter. Students with some biology or physiology background will have some advantage, as nutrition is multi-disciplinary. This course functions best for students who can manage their time effectively and are comfortable with a mix of multiple choice quizzes and "thought" questions that are more open ended; it does not function well as a 2 credit "add on" to an already busy schedule. We have assignments due the first week, so students who add the class later have some disadvantage.
Style: 100% Web Based. Web based class
Grading: 50% quizzes, 50% reflection paper. short answer critical thinking questions
Exam Format: Quiz format is multiple choice

FSCN 1013 Dietary Supplements: scientific, regulatory, and cultural aspects
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Brady, Linda J
Description: The course will cover: 1) Use of dietary supplements in the U.S.; how U.S. public demand drives industry and government. 2) The development and implementation of the law—Dietary Supplements Health and Education Act. 3) DSHEA and "safety testing," and risk assessment: How much safety data is needed before marketing? 4) Ethics of marketing. 5) FTC responsibilities and the ethics of advertising. 6) Other cultures as sources of supplements; transference of use between cultures. 7) Issues and ethics of intellectual property rights of indigenous cultures. 8) Rational use of dietary supplements for health and sports performance; ethical decisions in use for athletic performance. 9) Use of supplements for weight loss. A UM Connect audio video orientation is provided to explain the syllabus and assignment submission and academic integrity; registered students will receive information on orientation about a week before classes start. For each weekly unit, an online UM...
Connect presentation of the week's power point is also available
to complement weekly readings. Students critically evaluate
information on supplements and submit weekly homework and
critical thinking questions online via the class website; these are graded online and returned. This course functions best for
students who can manage their time effectively and are comfortable with a mix of factual questions and “thought” questions (critical thinking) that are more open ended and require students to move beyond the readings into higher level
thinking. There is no textbook; readings are online.

Style: 100% Web Based. totally web based
Grading: 50% written homework, 50% reflection paper
homework and critical thinking (reflection) questions
Exam Format: Homework and critical thinking are in multiple
parts, with short answers of a paragraph or two for each part

FSCN 1102 Food: Safety, Risks, and Technology
3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme;
Instructor: Labaza PhD, Theodore Peter
Description: I Introduction to the inherent risks and safety of the food supply and the use of public policy, and food technology to
reduce those risks including the public perception of those risks.
The course will survey microbiological, chemical and
environmental hazards, government and industry controls used
to ensure foods are safe. After a general review of risk the
course will focus on hot issues including the new initiatives on allergens, bio-terrorism, GMOs, obesity, trans fatty acids,
Johnness disease and health claims. The course will emphasize
government regulations with respect to adulteration, food and
misbranding as the means for ensuring food safety. Thermal,
processes, high pressure and irradiation which will be described
as examples of the technologies used in food processing to
reduce risk and assure a safe food supply. This course satisfies
the CLE Citizenship and Public Ethics theme and emphasizes the
public policy process, critical thinking skills and internet use.
There are 8-10 in class questions, two written assignments
(scenario writing) and two in class open book quizzes. Critical
thinking skills and internet use. You will be made aware of the
magnitude of the food safety issue and the use of public policy to
manage inherent risk, as related to processing, distribution and
preparation of food at home and in food service. We will cover
methods used to control and maintain both safety and quality in
the processing and distribution of foods.

Style: 60% Lecture, 20% Discussion. video
Grading: 33% reports/papers, 67% quizzes.
Exam Format: Short essays, critical thinking, evaluation of
issues

FSCN 1112 Principles of Nutrition
3 credit(s); prereq High school [biology, chemistry]; Meets CLE req of Environment Theme;
Instructor: Crroll, Jillian Kathleen
Description: This course is open to all students. The goal of the
course is to provide the student with an understanding of the
facts and complexities of the science of nutrition. The course
covers digestion, absorption, and metabolism of nutrients; major
functions of nutrients and physiological changes with deficiency
or excess; human nutritional requirements; food sources of
nutrients; critical evaluation of nutrition information; role of
nutrition in chronic disease development and prevention
throughout the life cycle; nutrition, food production, and the
environment. This course meets the CLE Environment Theme
requirement.

Style: 90% Lecture, 10% Discussion.
Grading: 50% mid exam, 25% final exam, 25% reports/papers.
The lowest of the three exam grades is dropped with the two
highest exams are counted towards the final course grade, which
also includes the grade on the final exam and the grade on the
project.

Exam Format: Multiple choice and matching

FSCN 1121 Principles of Nutrition
3 credit(s); prereq High school [biology, chemistry]; Meets CLE req of Environment Theme;
Instructor: Brady Linda J
Description: This course is for all levels of students and will
address: 1. essential nutrients needed from the diet; 2. major
functions of nutrients and physiological changes with deficiency
or excess; 3. digestion, absorption, and metabolism of nutrients;
4. eating programs; 5. aging issues; 6. lifestyle, method and nutrition; 6. life cycle
issues; 7. food safety issues; 8. issues of food and the
environment. This course meets the CLE theme of
ENVIRONMENT. This class is web enhanced. Much of material
covered in class is available in the text and power points posted
on the class website, and UM Connect presentations of the
power points, but additional information, examples, and current
events will be given in class. One to two questions on quizzes
(out of 20 total) will be from material covered only in class.
Students will be evaluated by weekly online chapter quizzes, a
diet analysis and critical thinking questions about their diet
analysis, and a final exam covering the environmental theme
only. Prerequisite is high school biology, but college biology
and chemistry are helpful, since nutrition is a science that is based
on biology, physiology, and biochemistry, as well as more social
aspects. Student evaluations are routinely around 5 to 6, but
some students indicate that they find the material challenging as
nutrition covers so many topics.

Style: 90% Lecture, 10% Small Group Activities. small group
discussion
Grading: 25% final exam, 50% quizzes, 25% other evaluation.

Exam Format: multiple choice

FSCN 3615 Sociocultural Aspects of Food, Nutrition, and Health
3 credit(s); prereq 1112; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Smith, Cherry
Description: Socio-cultural aspects of regional and cultural
diversity in food preferences and food behavior, food habits,
demographics, lifestyles, food consumption and expenditures.
Effect of socio-economic status, religious beliefs, age, and
cultural meaning of food on food choices. Students will
understand factors that influence eating behavior, particularly
how socio-economic status, religious beliefs, age and gender,
and ethnicity contribute to it. Additionally, they will be able to
discuss how societal values influence eating patterns and
contribute to health issues. Lastly, students will be able to
describe how social scientists study, describe, and interpret
information on dietary patterns through observations and class
readings and discussions.

FSCN 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq FScN undergrads, instr consent; UC only;
Instructor: Smith, David Eugene
Description: Student may contact the instructor or department
for information.

FSCN 4121 Food Microbiology
OPT No Aud, 3 credit(s); prereq BIOC 3021, [1021 or VPB 2032 or MCB 3301];
Instructor: O'Sullivan, Daniel J
Description: Student may contact the instructor or department
for information.

FSCN 4122 Food Fermentations and Biotechnology
2 credit(s); prereq [MCB 3301, BIOL 4003] or instr consent;
Instructor: O'Sullivan, Daniel J
Description: Student may contact the instructor or department
for information.

FSCN 4291 Independent Study
1-4 credit(s), max credits 4, 1 repeat allowed; prereq
Undergrads, instr consent;
Instructor: STAFF
Description: Independent Study is for one-to-one faculty student
work agreed upon food science related topics. Prior registration
approval is necessary and can be obtained by contacting Sue P.
at 624-6753. Contracts are used to outline the proposed
projects.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
FSCN 4332 Food Processing Operations
A-F only, 3 credit(s); prereq 4331 or BAE 4744;
Instructor: Reineccius,Gary A
Description: This course is a continuation of topics in food processing. This semester, topics will include fluid flow, pumping, heat and mass transfer, thermal processing and case studies.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 30% final exam, 10% quizzes, 30% laboratory evaluation.
Exam Format: Problems and short answers

FSCN 4349 Food Science Capstone
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed;
prereq Concurrent enrollment in another [4xxx or 5xxx];
FSCN course, food science major, sr;
Instructor: Bunzel,Mirko
Description: Student may contact the instructor or department for information.

FSCN 4613 Experimental Nutrition
2 credit(s); prereq 4612, BioC 3021, Stat 3011;
Instructor: Gallerher,Daniel David
Description: This course provides a laboratory experience in chemical and biochemical methods of analysis of nutritional status. The majority of lab experiences will be conducted to determine the student's own nutritional status. Students develop an understanding of the usefulness of various biochemical parameters in ascertaining nutritional status, become familiar with a variety of laboratory equipment and procedures, develop an understanding of the theory of operation of a number of laboratory instruments, and learn the principles involved in a number of chemical and biochemical procedures. There is one lecture and one laboratory period per week. The course is intended primarily for upper division dietetics and nutrition science majors and beginning nutrition graduate students. Students must have taken courses in biochemistry and physiology. A course in statistics is highly recommended.
Style: 25% Lecture, 70% Laboratory, 5% Web Based.
Grading: 30% mid exam, 40% final exam, 25% reports/papers, 5% other evaluation. Final exam is cumulative.
Exam Format: Multiple choice.

FSCN 4614 Community Nutrition
3 credit(s); prereq 1112; Meets CLE req of Cultural Diversity Theme;
Instructor: Smith,Chery
Description: Community-based nutrition issues will be explored, including nutrition risks associated with different age, sex, ethnic, and socioeconomic groups; community needs assessment; program planning and evaluation; and programs developed to address the needs and interests for people at different stages of the life cycle, ethnic or cultural backgrounds, and literacy levels. Students will be able to describe the purpose and principles of community nutrition, the role of the nutritionists, and methods employed to gather information on the nutritional status of the multiethnic American population. They will be able to describe how race, culture and socioeconomic status influence the nutritional risk factors associate with chronic illness and selected conditions (i.e. pregnancy, low birthweight infants, aging). Students will be able to conduct a community needs assessment, identify and prioritize problems, and develop a culturally-appropriate nutrition program plan for people living in their community. Lastly, students will be able to characterize the major government - sponsored food and nutrition programs and will be able to refer members of the community to the appropriate program for services required.

FSCN 4666 Medical Nutrition Therapy II
A-F only, 3 credit(s); prereq 4665;
Instructor: Earthman,Carrie
Description: Student may contact the instructor or department for information.

FSCN 4732 Food and Nutrition Management
A-F only, 3 credit(s); prereq 3732, Mgmt 3001; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Marquart,Len
Description: Student may contact the instructor or department for information.

FSCN 5531 Grains: Introduction to Cereal Chemistry and Technology
2 credit(s); prereq Biol 1009, Chem 1022;
Instructor: Bunzel,Mirko
Description: Student may contact the instructor or department for information.

FSCN 8310 General Seminar
S-N only, 1 credit(s), max credits 2; prereq instr consent;
Instructor: O'Sullivan,Daniel J
Description: Student may contact the instructor or department for information.

FSCN 8318 Current Issues in Food Science
A-F only, 2 credit(s), max credits 4; prereq 4111, 4121, dept consent;
Instructor: Diez-Gonzalez,Francisco
Description: Student may contact the instructor or department for information.

FSCN 8330 Research Topics
1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Viker,Susan Kay
Description: Student may contact the instructor or department for information.

FR 1901 Freshman Seminar: Recreational Trail Design
3 credit(s), max credits 3, 1 repeat allowed; prereq freshman; Meets CLE req of Environment Theme;
Instructor: Baughman,Mel J
Description: Student may contact the instructor or department for information.

FR 3131 Geographical Information Systems (GIS) for Natural Resources
A-F only, 4 credit(s); prereq Soph or jr or sr; Credit will not be granted if credit has been received for: FR 5131;
Instructor: Jenks,Andrew Carl
Description: FR 3131 is an introduction to Geographical Information Systems, focusing on spatial data development and analysis in the science and management of natural resources. Topics covered include basic data structures, data sources, data collection, data quality, geodesy and map projections, spatial and tabular data analyses, digital elevation data and terrain analyses, cartographic modeling, and cartographic layout.
Laboratory exercises provide practical experiences that complement the theory covered in lecture.

**Style:** 50% Lecture, 50% Laboratory.

**Grading:** 15% mid exam, 15% final exam, 55% laboratory evaluation, 15% other evaluation. Third Test

**Exam Format:** short answer; multiple choice

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**FR 3203 Forest Fire and Disturbance Ecology**
A-F only, 3 credit(s); prerequisite [3104 or equiv], course fee; Credit will not be granted if credit has been received for: FR 5203;
Instructor: Frelich, Lee E
Description: The ecology, history, management, and control of fire, wind, insect infestation, deer browsing, and other disturbances in forests, including disturbance regimes of boreal, northern hardwood, and other major forest types of North America. The influence of disturbance on wildlife habitat, urban/wildland interfaces, forest management, and stand/landscape dynamics. One-day field trip. Offered every spring.
Style: 60% Lecture, 20% Discussion. Small group exercises
Grading: 40% mid exam, 20% final exam, 20% problem solving, 10% other evaluation.
Exam Format: Short answer, essay, solve problems

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**FR 3218 Measuring and Modeling Forests**
A-F only, 3 credit(s); prerequisite ESPM 3012 or STAT 3011; Credit will not be granted if credit has been received for: FR 5218;
Instructor: Burk, Thomas Edward
Description: Student may contact the instructor or department for information.

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**FR 3262 Remote Sensing of Natural Resources and Environment**
4 credit(s); Credit will not be granted if credit has been received for: FR 5262;
Instructor: Bauer, Marvin E
Description: Student may contact the instructor or department for information.

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**FR 3411 Managing Forest Ecosystems: Silviculture**
3 credit(s); prerequisite [3104, non FR [major or minor]] or [3104, concurrent enrollment in 5413, FR [major or minor]] or instructor consent; Credit will not be granted if credit has been received for: FR 5411;
Instructor: D'Amato, Anthony William
Description: Student may contact the instructor or department for information.

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**FR 3431 Timber Harvesting and Road Planning**
2 credit(s); prerequisite 3411 or instructor consent; Credit will not be granted if credit has been received for: FR 5431;
Instructor: Blinn, Charles R
Description: Introduction to forest operations. Terminology, basic engineering, equipment and harvesting system options, productivity/costs. Relationship to forest management and silviculture. Road planning, forest management guidelines, approaches for mitigating potential impacts to soil/water resources. Environmental implications of method/equipment choices. Selling timber. Sale design, layout, and administration.
Style: 80% Lecture, 5% Film/Video, 5% Small Group Activities, 10% Student Presentation.
Grading: 20% mid exam, 20% final exam, 15% reports/papers, 45% written homework.
Exam Format: The two midterm take home exams are both short essay format. The final exam is a mixture of T/F, short answer, matching, and fill-in-the-blank questions.

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**FR 3471 Forest Planning and Management**
A-F only, 3 credit(s); prerequisite intro silviculture or concurrent registration in silviculture or instructor consent; Credit will not be granted if credit has been received for: FR 5471;
Instructor: STAFF
Description: Process planning and scheduling of forest management activities. Goals and objectives of landowners, industry, government, and society. Key issues in forest management and policies/regulations that influence management. Decision analysis: predicting forest outcomes, financial analysis, forest regulation, mathematical models, linear programming, tactical forest management, and economic analysis. Consideration of landscape-level management, desired future conditions, historical range of variability, wildlife management, carbon sequestration, resource monitoring, certification, and adaptive management. Offered every spring.

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**FR 3501 Arboriculture: Selection and Maintenance of Trees**
3 credit(s); prerequisite [1101 or Hort 1012], BIOL 2022;
Instructor: Johnson, Gary R
Description: This course is designed for the undergraduate student in urban forestry, forestry, horticulture or landscape architecture who desires more technical information on the selection, siting, and care of individual trees in the landscape. Topics include: species selection, planting and transplanting, pruning, plant health care management, diagnosis of problems, risk management, and remedial treatments. The textbook is the 4th edition of Aboriculture: Integrated Management of Landscape Trees, Shrubs, and Vines. Other assigned readings from journals and texts reserved in the Forestry library, as well as electronically forwarded articles. Classes are discussion/demonstration lectures with professionals as occasional lecturers. Exams are short-answer and problem solving in nature. Quizzes are brief and based on reading assignments. Lab exercises are pragmatic and problem-solving.
Style: 60% Lecture, 10% Discussion, 20% Demonstration, 15% Guest Speakers. Demonstration
Grading: 10% mid exam, 10% final exam, 15% reports/papers, 35% quizzes, 20% written homework, 10% additional semester exams. 3rd exam
Exam Format: Short-answer, problem solving

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**FR 3612 Silviculture and Timber Harvesting Practices in Minnesota**
1 credit(s); prerequisite Forest ecology, managing forest ecosystems: silviculture; Credit will not be granted if credit has been received for: FR 5612;
Instructor: Blinn, Charles R
Description: Silvicultural and harvesting practices are driven primarily by landowner objectives and site and stand restrictions. This field-based course focuses on silvicultural and timber harvesting practices of different forest species on various types of sites throughout Minnesota. The course consists of two mandatory classroom meetings in Twin Cities, one on Jan 14, Wednesday and one TBA during spring semester and two mandatory field trips January 15–16 (Thursday/Friday) and January 30–31 (Friday/Saturday).
Style: 10% Discussion, 90% Field Trips. The first field tour will occur on January 30 - 31 in southeastern Minnesota. The second field tour is scheduled for February 7 – 8 in northern Minnesota. The last class meeting, a discussion of questions about the field trips, will occur in March.
Grading: 100% reports/papers.

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**FR 4200H Honors Seminar**
A-F only, 1 credit(s); prerequisite FR upper division honors, instructor consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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**FR 4293 Directed Study**
1-5 credit(s), max credits 15, 3 repeats allowed; prerequisite instructor consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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**FR 4501 Urban Forest Management: Managing Greenspaces for People**
3 credit(s); prerequisite [1101, 3501, Ent 4251, PIPa 3003, [UF major or minor]] or instructor consent; Credit will not be granted if credit has been received for: FR 5501; Meets CLE req of Citizenship/Publ Ethics Theme;
FR 5203 Forest Fire and Disturbance Ecology
A-F only, 3 credit(s); prereq [Grad student or instr consent], course fee; Credit will not be granted if credit has been received for: FR 3203;
Instructor: Frellich, Lee E
Description: The ecology, history, management, and control of fire, wind, insect infestation, deer browsing, and other disturbances in forests, including disturbance regimes of boreal, northern hardwood, and other major forest types of North America. The influence of disturbance on wildlife habitat, urban/wildland interfaces, forest management, and stand/landscape dynamics. One-day field trip. Offered every spring.
Style: 80% Lecture, 20% Discussion. Small group exercises
Grading: 40% mid exam, 20% final exam, 10% reports/papers, 20% problem solving. Field trip
Exam Format: Short answer, essay, solve problems

FR 5218 Measuring and Modeling Forests
A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3218;
Instructor: Burk, Thomas Edward
Description: General sampling design and survey techniques to assess current resource conditions. Application of these metrics/sampling methods to forest vegetation. Calculation of tree/stand volume and selection of modeling approaches. Case studies of modeling to project future growth. Landscape processes, characterization, and modeling. Offered every spring.

FR 5262 Remote Sensing of Natural Resources and Environment
4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3262;
Instructor: Bauer, Marvin E
Description: The course provides students with a working knowledge of the principles and applications of remote sensing. It provides a survey of the concepts and techniques of remote sensing and image analysis for natural resource inventory and mapping, land use analysis, and monitoring natural and environmental resources. Both photographic and digital sensing approaches are considered. The laboratory provides hands-on experience, including a practical/team project, in interpretation of aerial photographs and an introduction to digital image analysis techniques. The course will provide students from any natural resources, geography, agriculture or biology discipline an understanding of remote sensing systems and their applications to measuring, analyzing and managing Earth resources.
Style: 60% Lecture, 40% Laboratory
Grading: 30% mid exam, 30% final exam, 5% reports/papers, 20% special projects, 15% laboratory evaluation.
Exam Format: Multiple choice

FR 5411 Managing Forest Ecosystems: Silviculture
3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3411;
Instructor: D’Amato, Anthony William
Description: Student may contact the instructor or department for information.

FR 5413 Managing Forest Ecosystems: Silviculture Lab
1 credit(s); prereq FR [major or minor] or grad student;
Instructor: D’Amato, Anthony William
Description: Student may contact the instructor or department for information.

FR 5431 Timber Harvesting and Road Planning
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3431;
Instructor: Blinn, Charles R
Description: Introduction to forest operations. Terminology, basic engineering, equipment and harvesting system options, productivity/costs. Relationship to forest management and
silviculture. Road planning, forest management guidelines, approaches for mitigating potential impacts to soil/water resources. Environmental implications of method/equipment choices. Selling timber. Sale design, layout, and administration. Style: 80% Lecture, 5% Film/Video, 5% Small Group Activities, 10% Student Presentation. 
Grading: 20% mid exam, 20% final exam, 15% reports/papers, 45% written homework. 
Exam Format: The two midterm take home exams are both short essay format. The final exam is a mixture of T/F, short answer, matching, and fill-in-the-blank questions. 

FR 5471 Forest Planning and Management 
A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3471; Instructor: STAFF 
Description: Processes and techniques for scheduling forest management activities. Goals and objectives of landowners, industry, government, and society. Key issues in forest management and policies/regulations that influence management. Decision analysis: predicting forest outcomes, financial analysis, forest regulation, mathematical models, linear programming, tactical forest management, and economic analysis. Consideration of landscape-level management, desired future conditions, historical range of variability, wildlife management, carbon sequestration, resource monitoring, certification, and adaptive management. Offered every spring. 

FR 5501 Urban Forest Management: Managing Greenspaces for People 
3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 4501; Instructor: Johnson, Gary R 
Description: This course is designed for upper level undergraduate and graduate students in urban forestry, forestry, natural resources, landscape architecture, landscape design and planning curricula. This is a management course with less emphasis on tree care than FR 3501. Topics of study include: risk assessment and management; inventorying and developing maintenance programs; legal perspectives of urban forest management; urban user preferences; minimizing green and gray infrastructure conflicts; protecting the resources during development and urban expansion; storm preparedness and response. Style: 40% Lecture, 20% Discussion, 5% Student Presentation, 15% Demonstration, 20% Guest Speakers. Grading: 15% mid exam, 15% final exam, 30% reports/papers, 30% quizzes, 10% in-class presentation. 

FR 5612 Silviculture and Timber Harvesting Practices in Minnesota 
1 credit(s); prereq Forest ecology, managing forest ecosystems: silviculture; Credit will not be granted if credit has been received for: FR 3612; Instructor: Blinn, Charles R 
Description: Silvicultural and harvesting practices are driven primarily by landowner objectives and site and stand restrictions. This field based course focuses on silvicultural and timber harvesting practices of different forest species on various types of sites throughout Minnesota. The course consists of two mandatory classroom meetings in Twin Cities, one on Jan 14, Wednesday and one TBA during spring semester and two mandatory field trips January 15-16 (Thursday/Friday) and January 30-31 (Friday/Saturday). Style: 10% Discussion, 90% Field Trips. The first field tour will occur on January 30 - 31 in southeastern Minnesota. The second field tour is scheduled for February 7 - 8 in northern Minnesota. The last class meeting, a discussion of questions about the field trips, will occur in March. Grading: 100% reports/papers. 

FR 5700 Colloquium in Natural Resources 
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent; Instructor: STAFF 
Description: Colloquium in specialized topics in natural resources. Style: 40% Lecture, 30% Discussion. Grading: 50% reports/papers, 30% special projects, 10% in-class presentation, 10% class participation. Exam Format: essay 

FR 8101 Research Problems: Physiological Ecology 
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent; Instructor: Reich, Peter Bernard 
Description: Student may contact the instructor or department for information. 

FR 8101 Research Problems: Physiological Ecology 
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent; Instructor: Montgomery, Rebecca Anne 
Description: Student may contact the instructor or department for information. 

FR 8102 Research Problems: Forest-Tree Genetics 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: David, Andrew J 
Description: Student may contact the instructor or department for information. 

FR 8103 Research Problems: Forest Hydrology 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Eckman, Karyln 
Description: Student may contact the instructor or department for information. 

FR 8103 Research Problems: Forest Hydrology 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Brooks, Kenneth N 
Description: Student may contact the instructor or department for information. 

FR 8104 Research Problems: Forest Ecology 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Reich, Peter Bernard 
Description: Student may contact the instructor or department for information. 

FR 8104 Research Problems: Forest Ecology 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Montgomery, Rebecca Anne 
Description: Student may contact the instructor or department for information. 

FR 8104 Research Problems: Forest Ecology 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Montgomery, Rebecca Anne 
Description: Student may contact the instructor or department for information. 

FR 8105 Research Problems: Silviculture 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: D'Amato, Anthony William 
Description: Student may contact the instructor or department for information. 

FR 8106 Research Problems: Urban Forestry--Biology and Management 
1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Johnson, Gary R 
Description: Student may contact the instructor or department for information. 

FR 8107 Seminar: Forest Resources 
1 credit(s); Instructor: Thompson, Jerrielyn L 
Description: Student may contact the instructor or department for information.
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<th>Course Code</th>
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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
FREN 100 Reading French in the Arts and Sciences
S-N only, 0 credit(s);
Instructor: Akehurst JD,PhD,Frank Ronald
Description: Student may contact the instructor or department for information.

FREN 1001 Beginning French
5 credit(s);
Instructor: STAFF
Description: This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 1022 which provides students with an accelerated review of Fren 1001 material followed by material covered in Fren 1002. For further information on placement, see your advisor or contact the Department of French and Italian. Fren 1001 is a theme-based course. Students develop their communication skills in French in different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from "Premiere Etape" through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: Combination of whole-class and small-group activities
Grading: 10% mid exam, 15% final exam, 12% reports/papers, 8% special projects, 25% other evaluation. written exams; 12% oral tests; 8% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

FREN 1002 Beginning French
5 credit(s); prereq 1001 or equiv; Credit will not be granted if credit has been received for: FREN 4022;
Instructor: STAFF
Description: Fren 1002 is intended for students who have completed Fren 1001 or the equivalent. In this course students build on the interpersonal, interpretive and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone practices and products. Culture is taught through multimedia and cultural readings. Fren 1002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: Class Time: Mostly discussion and student involvement in pair/group activities
Grading: 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 1003 Intermediate French
5 credit(s); prereq 1002 or Entrance Proficiency Test;
Instructor: STAFF
Description: This course is designed for students who have completed Fren 1002 or 1022 with a C- or better or who have successfully passed the EPT (Entrance Proficiency Test) for this level. In this course students will review language structures acquired in beginning French. Students will expand their speaking, writing, listening, reading skills while furthering their awareness and knowledge of the cultures of the Francophone world. Topics introduced in this course will include commerce, youth issues, transportation, technology, telecommunications and the media. The textbook Interaction, 7th ed. includes contemporary informational readings, historical information, and literary texts. The textbook is accompanied by a workbook and web-based audio materials that are designed to be used by students outside of class. In this text students will learn material from Chapters 1-3, 7, 4-5. Several class sessions will allow students to work with audio-visual resources to develop their listening and cultural competence, and with authentic web-based resources to develop their reading skills and expand their cultural knowledge. Students will become more sophisticated readers of literary texts (from the Francophone world including France) as they work with a selection of 19th- and 20th-century literary readings. Intermediate language courses involve regular student interactions, partner activities and group work. Expect an average of 2 hours of outside preparation for each class session hour.
Style: Mostly discussion and student involvement in pair/group activities
Grading: 15% final exam, 20% reports/papers, 8% quizzes, 8% class participation, 30% other evaluation. written exams, 15% oral exams, 5% workbook exercises
Exam Format: Exams assess a student's listening, reading, speaking and writing proficiency. Oral exams are administered in pairs, written exams involve answering short questions and essay writing.

FREN 1004 Intermediate French
5 credit(s); prereq 1003 or Entrance Proficiency Test;
Instructor: STAFF
Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural awareness, knowledge and understanding of Francophone cultures. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, education, travel and leisure, and Francophonie. The textbook "Interaction" 7th ed. includes contemporary informational readings, historical information, and literary texts. In this text students will learn material from Ch. 10, 6, 8, 9. Audio-materials to accompany the workbook are available on the course website for use outside the classroom. Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their listening and culture skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts. In the course students will read a short novel 'Une vie de Boy' by F.Oyono. During enrollment in 1004 students who choose to, will have the opportunity to complete the Language Proficiency Exam (LPE) and earn a text line on their transcript endorsing their proficiency in French.
Style: Mostly discussion and student involvement in pair/group activities
Grading: 15% final exam, 20% reports/papers, 8% quizzes, 8% class participation, 30% other evaluation. written exams, 15% oral exams, 5% workbook exercises
Exam Format: Exams assess a student's listening, reading, speaking and writing proficiency. Oral exams are administered in pairs, written exams involve answering short questions and
FREN 1022 Accelerated Beginning French 5 credit(s); prereq 2 or more yrs high school French; Instructor: STAFF
Description: Prereq: 2 or more yrs high school French This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 1001 is a course for students with no previous French studies. The Fren 1022 course begins with a review of Fren 1001 materials (Ch. preliminaire through Ch. 5 in "Deux Mondes" 6th ed.), followed by materials introduced in Fren 1002 (Ch. 6 through Ch. 10). In other words, the course allows students to learn first-year materials in one semester. Upon entering Fren 1022 students should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: "passe compose" will be reviewed and "imparfait" will be introduced). Fren 1022 is a theme-based course. Themes addressed in this course include: student life, family, recreation, housing, Francophone heritage in North-America, Francophone youth, food, geography, the environment, travel, education and employment. Students develop knowledge and understanding of Francophone practices and products through multimedia and cultural readings. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication class attendance is fundamental. 
Style: Mostly discussion and student involvement in pair/group activities
Grading: 36% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 10% special projects, 7% quizzes, 7% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 3014 French Phonetics 2 credit(s); prereq 1004; Instructor: Treece PhD,Rick
Description: This course will focus on both the theoretical and practical aspects of French pronunciation, with a strong emphasis on improving pronunciation. In the theoretical portion of the course, the major aspects of French pronunciation will be examined, with particular attention given to areas of contrast between French and English pronunciation. Students will learn to use symbols from the International Phonetic Alphabet in order to do phonetic transcription, i.e. representing French sounds with phonetic symbols. Another important theoretical component is learning the rules governing the correspondence between written letters and their pronunciation. In the practical portion of the course, students will be given extensive pronunciation practice so that they may identify and eliminate errors in their own pronunciation. NOTE: This is NOT a course in French conversation. This course is designed for non-native speakers of French and is a required course for students completing a French major under semesters. However, students with excellent pronunciation skills may gain exemption from this requirement by passing a practical pronunciation test. 
Style: 10% Lecture, 10% Discussion, 80% Laboratory. 
Grading: 10% final exam, 5% reports/papers, 20% quizzes, 10% class participation, 10% laboratory evaluation, 45% other evaluation. 8 audio recordings 
Exam Format: short answer, multiple choice

FREN 3015 Advanced French Grammar and Communication 4 credit(s); prereq 1004 or equiv or instr consent; Instructor: STAFF
Description: Fren 3015 is the first in a two-course sequence (with 3016) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3015, students will develop skills in a variety of writing forms (e.g. portrait, description, narration) while exploring selected cultural themes through written texts and film. Course requirements include exams as well as regular writing assignments, which usually involve one rewriting. In order to enroll in 3015, it is highly recommended that students have completed Fren 1004 with a minimum grade of B; transfer students should take the Language Proficiency Exam and receive a High Pass. For information on the LPE, see <a href="http://langtest.umn.edu/imdatesGPT.html">http://langtest.umn.edu/imdatesGPT.html</a>
Style: Language instruction
Exam Format: Grammar exercises, essays

FREN 3016 Advanced French Composition and Communication 4 credit(s); prereq 3015 or equiv or instr consent; Instructor: STAFF
Description: Fren 3016 is the second in a two-course sequence (with 3015) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3016, students will develop skills in a variety of writing forms (e.g. compute rendu, argumentative essay, film scene analysis) while exploring selected cultural themes through written texts and film. Course requirements include written exams as well as regular writing assignments, which usually involve one rewriting. Students who do not receive a grade of B or better in 3015 (or equivalent course) are strongly encouraged to repeat 3015 before taking 3016.
Style: Language instruction
Grading: 50% written homework, 10% class participation.
Exam Format: Grammar exercises, essay

FREN 3101W Introduction to French Literature 4 credit(s); prereq 3015 or equiv; Meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: STAFF
Description: This course is an introduction to literature and methods of literary analysis for students preparing a major or minor in French. This course treats selected works of French and Francophone literature from the Early Modern to the Modern Period. Students learn to identify the salient features of the major genres, to apply techniques of close textual reading, and to write critical analyses of poetry, fictional prose, and plays. Works are analyzed from various perspectives with a view to understanding their place in literary history and cultural context. Some key topics of the course will be subjectivity, language, narration, description, rhetorical figures, identity, power, and desire. Writing is an important component of this class; class discussions and oral assignments will focus not only on understanding literary works but also on how they function, so that students may apply skills developed through discussion to their written assignments.
Style: 60% Lecture, 40% Discussion. 
Grading: 15% mid exam, 60% reports/papers, 15% class participation.
Exam Format: essay

FREN 3140 Topics in Medieval and Renaissance Literature: Reading Renaissance 3 credit(s), max credits 9, 3 repeats allowed; prereq 3101; Instructor: Brown,Mary Frances
Description: Reading Renaissance Writers of the sixteenth century were first and foremost readers, of classical and (although many would not admit it) medieval texts. It was their humanist reflection upon reading, interpretation, education, and language that provided the impetus for the ?rebirth? of French literature that occurred in the period. In this class, therefore, we shall read texts from authors with diverse perspectives upon these topics. While we shall study this literature in its historical specificity, the ultimate goal of the course is a broader and deeper understanding of the ways readers (any readers) find to engage with texts from the past, an activity that we share with the humanists. Texts will include: Marguerite de Navarre, selections from the Heptameron; Rabelais, Pantagruel; Maurice Scève, selected epigrams and woodcuts from Delie; Joachim du Bellay, the Defense et Illustration de la Langue francaise and selections from the Antiquites de Rome; and Montaigne, selected essays. Class conducted in French. The seminar will begin with a workshop in reading sixteenth-century French, and
no prior experience with the early language is expected.

FREN 3260 Dramas of Culture: 20th-Century French and Francophone Theater
3 credit(s), max credits 9, 3 repeats allowed; prereq 3101; Credit will not be granted if credit has been received for: TH 3261; Instructor: Brewer, Maria M Description: Dramas of Culture: 20th Century French and Francophone Theater This course is focussed on the innovative dramatists, key movements, and contexts of 20th-Century French and Francophone theater. Theatrical movements we will be studying include symbolism, existentialism, the avant-garde, and contemporary drama and performance. Topics such as the following will be pursued: 1) sites of theater in modern culture and their significance in ?making visible? socio-political discourses and spaces, 3) theater?s innovative staging of these spaces? material, symbolic, and unconscious dimensions, 4) cultural exchange and complexity in contemporary theater, and 5) the involvement of the audience/interpreter in the signifying process. Plays and critical essays are likely to include the work of Bertolt Brecht, Antonin Artaud, Aime Cesaire, Jean-Paul Sartre, Samuel Beckett, Jean Genet, Marguerite Duras, Edouard Glissant, Simone Schwartz-Bart, Ariane Mnouchkine, Bernard-Marie Koltes, and Koffi Kwhahule. Plays, readings, videos/DVD, and powerpoint projections will be treated from a variety of interdisciplinary perspectives, including their cultural context, relation to theater history, practices of representation, and innovations in staging. The course, taught in French, combines a lecture and discussion format. Class Time: 60% Lecture, 40% Discussion. Work Load: 60 pages reading per week, 15 pages writing per term, 1 exam, 3 papers. Grade: 20% mid exam, 60% reports/papers, 20% class participation and presentations. Exam Format: essay

FREN 3350 Topics in Literature
3 credit(s), max credits 9, 3 repeats allowed; prereq 3101; Instructor: STAFF Description: Nineteenth-Century French literature is littered with ?coming of age? stories (romans d?apprentissage, d?education, de formation), accounts of young individuals obtaining for themselves a ?real world? education. This course explores the evolution of this genre over the course of the nineteenth century, paying special attention to the many different itineraries negotiated between individuals and society. Our goal is to unpack a selection of these educational itineraries by exploring the various elements that make up these mythical rites of passage: provincialism, travel, age, pedagogy and destinations. In addition, these works provide a lens through which to view the many social and political events that form the historical context of the nineteenth century: romanticism, revolutions, urbanization, capitalism, imperialism and mass culture. Using Mircea Eliade and Levi-Strauss, we will also examine the various mythical elements of this literary rite of passage. Our compagnons de route for the semester will be selected from the following: Balzac, Stendhal, Baudelaire, Hugo, Verne, Zola, Bruno, Sand and Maupassant.

FREN 3531 Sociolinguistics of French
3 credit(s); prereq 3015, Ling 3001 or instr consent; Credit will not be granted if credit has been received for: FREN 5531; Instructor: Kerr, Betsy Jean Description: All languages show variation when used in diverse contexts. After a brief introduction to the basic principles of language variation, we will consider the development and current state of linguistic ideology in France (e.g. what is the Academie Francaise, why is it important?) and how this ideology plays out in some current linguistic debates such as the predominance of anglicisms in contemporary French and the 1990 spelling reform. We will consider the diverse varieties of French that correspond to the various locations where French is spoken, with some attention to social and stylistic differences as well. Starting with regional differences within France, our itinerary will gradually move away from the metropole: first Belgium and Switzerland; then Canada, where we will spend some time tracing the history and current situation of French within the English-dominated North American continent; a brief look at French-based creoles and French in Africa; and finally, French in New England and in Louisiana. Our approach will be both external (what are the historical/cultural events and contexts that have affected language use?) and internal (what are the actual linguistic features that distinguish a particular variety of the language?). The course will present a broad survey; groups of undergraduate students will choose a topic of interest to research in depth for an in-class presentation and a final paper. Graduate students will write an individual research paper on a topic of their choice. Taught in French. Prereq: graduate student status or instructor permission; Fren 3015 or equivalent. Ling 5001 recommended, but not required. Style: 30% Lecture, 70% Discussion. Grading: 25% mid exam, 25% final exam, 30% special projects, 20% class participation. Exam Format: short answer, essay, limited true-false

FREN 3650 Topics in French/ Francophone Cultures: La nouvelle vague et le cinema du Senegal
3 credit(s), max credits 9, 3 repeats allowed; prereq 3015; Instructor: Dima, Vlad Description: This course looks at the seminal cinemas of the French New Wave and Senegal, and will provide you with the basic tools that will allow you to attempt to answer some of these questions. We will look at a number of films that have shaped the field of contemporary cinema and we will try to map out their historical trajectory and to reveal the aesthetic and cultural tensions produced by and through their complex inter-relationships. The artistic proximity of the two cinemas will allow for the contextualization of such thematic concerns as: images of the city, narrative techniques, and the female subject. At the same time, we will acquire and learn to apply basic technical terminology used in film studies (editing, narrative, point-of-view or sound).

FREN 3650 Topics in French/ Francophone Cultures: Departures and Arrivals in Maghrebi Cinema
3 credit(s), max credits 9, 3 repeats allowed; prereq 3015; Instructor: Abderrezak, Hakim Description: This course deals with films shot in North Africa (Morocco, Algeria and Tunisia). It focuses on visual representations of departures and arrivals. We will examine various types of departures and arrivals, such as human (migration, death, hospitality), textual (letters, news), and symbolic and historical (war of independence, ghostly appearances). What happens when a letter does not reach its destination? What do we do when we remember the dead? What do the departed tell us when they return in the form of memories, haunted voices and appearances? What does a ghost symbolize in the context of a post-colonial narrative? Why do people emigrate? Where and how do North African migrants travel? What is emigration, reverse migration and clandestine immigration in the Western Mediterranean? How do we learn about them? What do characters intend to do when they say they return to their homeland? What change of identity these types of travels trigger? The films raise these questions and others, which will prompt us to discuss such notions as memory, nostalgia and trauma. Among the films that we will analyze, all shown outside of class, are Merzak Allouache’s “ Bab el-Oued City”, Yasmine Kassari’s “ L’Enfant Endormi” and Hassan Legzouli’s “ Ten’ja”.

FREN 4001 Beginning French
2 credit(s); prereq Grad student; Instructor: STAFF Description: This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 4022 which provides students with an accelerated review of Fren 4001 material followed by material covered in Fren 4002. For further information on placement, see your advisor or contact the Department of French and Italian. Fren 4001 is a theme-based course. Students develop their communication skills in French in
different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from "Premiere Etape" through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour. Style: Combination of whole-class and small-group activities Grading: 10% final exam, 15% final papers, 12% reports/papers, 8% special projects, 10% quizzes, 25% other evaluation. 
Written exams; 12% oral exams; 8% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

FREN 4002 Beginning French
2 credit(s); prereq Grad student; Instructor: STAFF
Description: Fren 4002 is intended for students who have completed Fren 4001 or the equivalent. In this course students build on the interpersonal, interpretive and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone practices and products. Culture is taught through multimedia and cultural readings. Fren 4002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: Mostly discussion and student involvement in pair/group activities
Grading: 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 4003 Intermediate French
2 credit(s); prereq Grad student; Instructor: STAFF
Description: This course is designed for students who have completed Fren 1002 or 1022 with a C- or better or who have successfully passed the EPT (Entrance Proficiency Test) for this level. In this course students will review language structures acquired in beginning French. Students will expand their speaking, writing, listening, reading skills while furthering their awareness and knowledge of the cultures of the Francophone world. Topics introduced in this course will include commerce, youth issues, transportation, technology, telecommunications and the media. The textbook "Interaction," 6th ed., includes contemporary informational readings, historical information, and literary texts. The textbook is accompanied by a workbook and web-based audio materials that are designed to be used by students outside of class. In this text students will learn material from Chapters 1-3, 4-5. Several class sessions will allow students to work with audio-visual resources to develop their listening and cultural competence, and with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts. The textbook is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 2 hours of outside preparation for each class session.
Grading: 36% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 10% special projects, 7% quizzes, 7% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 4101V Honors: Seminar in French Studies
3 credit(s); prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive; Instructor: Brown, Mary Frances
Description: In this course, students design and carry out a substantial research project on a topic of their choice in the area of specialization in a community college, or who are transfer students, while Fren 4001 is a course for students with no previous French studies. Fren 4002 is intended for students who have completed Fren 1002 or 1022 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural knowledge. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, transportation and technology, education, leisure, and the francophone world. The text, "Interaction" 6th ed., includes contemporary informational readings, historical information, and literary texts. In this text students will learn material from Ch. 6 through Ch. 10. Audio-materials to accompany the workbook are available on the course website for use outside the classroom.
Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their listening and culture skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts (from France and the francophone world) as they work with a selection of 19th- and 20th-century literary readings compiled in "Explorations: La litterature du monde francais", 4th ed.

FREN 4004 Intermediate French
2 credit(s); prereq Grad student; Instructor: STAFF
Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural knowledge. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, transportation and technology, education, leisure, and the francophone world. The text, "Interaction" 6th ed., includes contemporary informational readings, historical information, and literary texts. In this text students will learn material from Ch. 6 through Ch. 10. Audio-materials to accompany the workbook are available on the course website for use outside the classroom.
Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their listening and culture skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts (from France and the francophone world) as they work with a selection of 19th- and 20th-century literary readings compiled in "Explorations: La litterature du monde francais", 4th ed.

FREN 4022 Accelerated Beginning French
2 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: FREN 1002;
Instructor: STAFF
Description: Prereq: 2 or more yrs high school French This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 4001 is a course for students with no previous French studies. The Fren 4022 course begins with a review of Fren 4001 materials (Ch. prelinaire through Ch. 5 in "Deux Mondes" 6th ed.), followed by materials introduced in Fren 4002 (Ch. 6 through Ch. 10). In other words, the course allows students to learn first-year materials in one semester. Upon entering Fren 4002, students should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: "passe compose" will be reviewed and "imparfait" will be introduced). Fren 4022 is a theme-based course. Themes addressed in this course include: student life, family, recreation, housing, Francophone heritage in North America, Francophone youth, food, geography, the environment, travel, education and employment. Students develop knowledge and understanding of Francophone practices and products through multimedia and cultural readings. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 2 hours of outside preparation for each class session.
of French and Francophone Studies (linguistics, literature, and culture). The topic must be approved by the instructor, and the research paper will be written in consultation with the lead instructor and other faculty members in the Department, as appropriate. French majors who plan to complete the requirements for another CLA major (including senior paper) are not required to take Fren 4101, although they may wish to. These students must substitute 3 credits in advanced electives numbering 3111 or above in the French major for Fren 4101. Style: 100% Discussion. Grading: 75% reports/papers, 10% in-class presentation, 15% class participation.

FREN 4101W Seminar in French Studies 3 credit(s); prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive; Instructor: Brown, Mary Frances Description: In this course, students design and carry out a substantial research project on a topic of their choice in the area of French and Francophone Studies (linguistics, literature, and culture). The topic must be approved by the instructor, and the research paper will be written in consultation with the lead instructor and other faculty members in the Department, as appropriate. French majors who plan to complete the requirements for another CLA major (including senior paper) are not required to take Fren 4101, although they may wish to. These students must substitute 3 credits in advanced electives numbering 3111 or above in the French major for Fren 4101. Style: 100% Discussion. Grading: 75% reports/papers, 10% in-class presentation, 15% class participation.

FREN 4970 Directed Readings 1-4 credit(s), max credits 9, 9 repeats allowed; prereq instructor consent; Instructor: STAFF Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

FREN 5531 Sociolinguistics of French 3 credit(s); prereq credit will not be granted if credit received for: 3531; Ling 3001 or 5001, grad; Credit will not be granted if credit has been received for: FREN 3531; Instructor: Kerr, Betsy Jean Description: All languages show variation when used in diverse contexts. After a brief introduction to the basic principles of language variation, we will consider the development and current state of linguistic ideology in France (e.g. what is the Academie Francaise, why is it important?) and how this ideology plays out in some current linguistic debates such as the predominance of anglicisms in contemporary French and the 1990 spelling reform. We will consider the diverse varieties of French that correspond to the various locations where French is spoken, with some attention to social and stylistic differences as well. Starting with regional differences within France, our itinerary will gradually move away from the metropole: first Belgium and Switzerland; then Canada, where we will spend some time tracing the history and current situation of French within the English-dominated North American continent; a brief look at French-based creoles and French in Africa; and finally, French in New England and in Louisiana. Our approach will be both external (what are the historical/cultural events and contexts that have affected language use?) and internal (what are the actual linguistic features that distinguish a particular variety of the language?). The course will present a broad survey; groups of undergraduate students will choose a topic of interest to research in depth for an in-class presentation and a final paper. Graduate students will write an individual research paper on a topic of their choice. Taught in French. Prereq: graduate student status or instructor permission; Fren 3015 or equivalent. Ling 5001 recommended, but not required. Style: 30% Lecture, 70% Discussion. Grading: 25% mid exam, 25% final exam, 30% special projects, 20% class participation. Exam Format: short answer, essay, limited true-false questions.

FREN 8270 Critical Issues: Prose 3 credit(s), max credits 12, 4 repeats allowed; Instructor: Brewer, Daniel Description: Knowledge Production, Technology, and Cultural Change: The Digital Encyclopedie. First printed between 1751 and 1772, the French Encyclopedie is a portal that opens onto numerous eighteenth-century contexts, be they philosophical, socio-economic, scientific, or literary. The publication in 1930 of Einfache formen (Fr.trans., 1972, Les formes simples), the now classic work of Andre Jolles, brought new attention to a literary category previously neglected by scholars, despite its popularity at all levels of society from the earliest times. In France, the study of formes breves? was soon placed within the domain of formes pragmatiques. . . , visant a un effet immediat sur le recepteur? (Dictionnaire international des termes litteraires) and came to include many genres: for example, ?aphorisme, sentence, adage, proverb, conte, nouvelle, anecdote, maxime, le mot d'esprit, devinette, l'ennui, devise, parabole, epitaphe, blague, le fragment, fable, fabliau.? This course, focusing on short narrative, will provide an opportunity to examine systematically those brief or simple forms of French narrative characterized by both concision and a pragmatic focus on delineating a human character trait or ?typical? quality while evoking any of three emotions: wonder, laughter, or fury. The close and direct relation between narrator and receiver characteristic of concise forms will be studied diachronically. The course will discuss theories of concise forms, both structural and functional, and will also consider works that are linked to the Encyclopedie as a form of ?wisdom production? and that provide a view of the Encyclopedie as an early example of a digital encyclopedia. The course will consider the various forms that fit these criteria; these include such works as the works of Rabelais, the poetical songs of Villon, and portions of the works of French classical authors. The course will focus on the forms that align with the concept of concise form as defined by Andre Jolles. Style: 78% Discussion, 15% Student Presentation, 2% Demonstration, 5% Guest Speakers. Grading: 60% reports/papers, 10% in-class presentation, 30% class participation.
participants will develop discipline-specific research topics relating to the encyclopedic text (in such areas as literary history, art history, history, history of science/technology/medicine, political theory, cultural studies, gender studies, etc.). Participants will be encouraged to examine questions in the encyclopedic text as they relate both to the broader early modern context as well as to key issues in contemporary critical theory. Participants will present research papers in a TEMS (Theorizing Early Modern Studies) collaborative workshop, which will be held in conjunction with a two-day symposium on the Encyclopedia. The course will be taught in English; reading knowledge of French is required.

**Style:** 70% Discussion, 20% Student Presentation, 10% Guest Speakers.

**Grading:** 70% reports/papers, 20% in-class presentation, 10% class participation.

**FREN 8420 Critical Issues: Francophone Literature**

**3 credit(s), max credits 9, 3 repeats allowed;**

**Instructor:** Preckshot, J E

**Description:** The inspiration for this course, subtitled: "Fren 8420: In Transit: Africans Between Two Worlds," is Abdourahman A. Waberi's "2003 novel, "Transit." In this novel two political refugees, one an intellectual and the other a simple foot soldier, narrate their life stories while waiting, in administrative limbo, in a detention zone at the Charles de Gaulle airport. Waberi's novel sets the stage for an examination of the ways in which the histories of Africans and the French have intertwined for four centuries, as well as how colonial history has conditioned both the relation of Africans to France and francophone Europe?in real and symbolic terms?and their reception on European soil. What circumstances, real or fantasized, draw Africans to francophone Europe? How are Africans viewed by Europeans, that is, under what conditions do Africans become visible to Europeans? Does their visibility, or lack thereof, favor inclusion or exclusion? And why have certain African writers chosen to leave their protagonists in an unsettled or transitional state?between continents, cultures and identities?rather than set them on the more straightforward course of implantation reflected in narratives of immigration? In addition to Waberi's "Transit," we will read Claire de Duras's ""Outrage,"" Gusmane Sembene's "La Noire de?", Alain Mabanckou's "Bleu blanc rouge," Ken Bugul's "Le Baobab fou," and Blaise N'Djohya's "Le Negre potemkine." The course readings will be supplemented by films, video and relevant theoretical essays.

**French and Italian**

**260 Folwell Hall**

**FRIT 3880 Topics in French and Italian Literatures and Cultures**

**3 credit(s), max credits 9, 3 repeats allowed;**

**Instructor:** Noakes, Susan J

**Description:** FRIT 3880: Topics in French and Italian Literature and Culture Cultural Competition between France and Italy, 1100-1700 FRIT courses deal with both French and Italian literature and culture and are conducted in English, with readings studied in English translation, to make participation by majors in French, Italian, FRIT, and many other fields possible. References to the original language versions of the works studied will be made available on the syllabus, for students who have studied the language in question. This spring's topics course will explore the development and history of cultural competition between France and Italy in the Middle Ages, Renaissance, and into the seventeenth century. Students will become acquainted with key texts and important cultural and political figures associated with this competition: primarily epics, tales, and poems, as well as travel writing and essays. Class discussion will raise broader issues about when, why, and how countries or peoples compete with each other to achieve a sense of superiority or hegemony. To help students engage in such discussion, they will become acquainted with theoretical concepts of Gramsci and Bourdieu as they may be applied to this topic. Class work will include reading and discussion of poetry and prose from the periods indicated, in English translation. (Students with knowledge of French or Italian may also consult texts in those languages.) The rise of vernacular languages in what is now France and Italy will be considered. How did a sense of a people tied to a vernacular language begin to develop? When and why was France perceived by Italians as predominant? When and why was Italy perceived by French people as predominant? What forms of cultural production were stimulated by this competition? What was the political, social, and economic context at various times for this centuries-long, ever-dynamic competition? What does consideration of this competition tell us about cultural production and domination, its mechanisms and effects? Can some of these mechanisms and effects be detected in today's cultural politics, not necessarily in France and Italy but in other parts of the world? This course is for undergraduates (majors or non-majors) interested in earlier European cultures and in the early working out of issues of cultural hegemony that came to play a role in colonialism.

**Style:** 30% Lecture, 5% Film/Video, 30% Discussion, 17% Small Group Activities, 10% Student Presentation, 2% Field Trips, 5% Guest Speakers. There will be one field trip during class time to Special Collections in Anderson Library.

**Grading:** 20% mid exam, 25% final exam, 30% reports/papers, 10% in-class presentation, 15% class participation.

**Exam Format:** Essay

**Gay, Lesbian, Bisexual, and Transgender Studies**

**425 Ford Hall**

**GLBT 3301 Gay, Lesbian, Bisexual, and Transgender Social Movements in the United States**

**3 credit(s); prereq 1001 or SOC 1xxx or GWSS 1001 or GWSS 1002 or SW 2001 or SW 2501 or instr consent; Credit will not be granted if credit has been received for: SW 3301; Instructor:** Phipps, Anne Elizabeth

**Description:** Student may contact the instructor or department for information.

**GLBT 3456W Sexuality and Culture**

**3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive; Instructor:** Gastierland, Gretchen Lynne

**Description:** Student may contact the instructor or department for information.

**GLBT 3472 Gay Men and Homophobia in American Culture**

**3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor:** Lekas, Michelle Yvonne

**Description:** Student may contact the instructor or department for information.

**GLBT 3610 Topics in GLBT Studies: Sociology of Sexualities**

**3 credit(s), max credits 6; Instructor:** Oryl, Timothy Adam

**Description:** Student may contact the instructor or department for information.

**GLBT 3610 Topics in GLBT Studies: GLBT Literature**

**3 credit(s), max credits 6; Instructor:** Wright, Michelle M

**Description:** This course will focus on the literary construction of what we now call GLBT identities in the Anglophone (North America and Britain specifically) West. We will begin with late 19th century "inventions" of the invert/homosexual/pervert as they arise in England and Germany, and then look at the first literary responses to them (both from England): Radclyffe Hall's The Well of Loneliness and E.M Forster's Maurice (which wasn't actually published for decades later). Rather than taking a sociopolitical stances on sexuality, this class will be wholly
focused on how 20th century literature in the West sought to imagine and construct a "new" identity, why race and gender seem to "pop up" time and time again in these novels, and how this literature--offering the only public "queer" voice at times directly reflects, at times transcends the era in which it was written. Including the above, our authors will also include Virginia Woolf; James Baldwin; Canadian Shani Mootoo; Black Scottish poet Jackie Kay; American murder mystery writers Rita Mae Brown and Patricia Highsmith ... others

**Description:**

This is a point-based class. No one component is given for in-class participation and informal bi-weekly blogs. Significant points are distributed among assignments. Significant points are given for in-class participation and informal bi-weekly blogs.

**Grading:**

Midterm paper is 20% and final paper is 40% of your final grade.

**Style:**

50% Lecture, 50% Discussion.

**GWSS 1003 Gender and Global Politics**

3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

**Instructor:** Purcell Gates, Laura

**Description:**

Student may contact the instructor or department for information.

**GWSS 1004W Point/Counterpoint: Contemporary Feminist Debates**

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

**Instructor:** Puotinen, Sara Lynne

**Description:**

Fundamentally, American feminism is a collection of movements of difference, disseusus and irreversible complexity. Debates over who counts as a feminist and what the feminist agenda should be have existed since the beginning of modern American feminism. Far from weakening feminism, public and private debates among feminists about feminism and its goals have helped to energize the movement and to ensure that is democratic. Taking as our premise that debate is essential for the success of feminism as a democratic movement (or collection of movements), the goal of this course is to explore how feminists have energized their theoretical/political projects through an engagement with each other's differences and through productive debates on key issues within the movement. After beginning with an introduction to feminism, we will devote the rest of the course to an in-depth exploration of three key issues/topics within feminism: (1) Reproductive Rights, (2) Work and (3) Family Values.

**GWSS 3303W Writing Differences: Literature by U.S. Women of Color**

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

**Instructor:** Murthy, Pashmina V

**Description:**

Skin Deep: Writing in Colours As a point of departure, we will begin by unpacking some of the key terms in the course title: how do we understand the terms ?difference,? ?of colour,? and ?women?? Is whiteness a colour? Whom are we excluding from this group? Through this course, we will look at writers who have sought to explore the twin beasts of racism and sexism, each of which vies with the other for importance. We will immerse ourselves in writings that reveal how these experiences shape identities and identifications: the loss of identity and its reforging, pluralities, layered voices, and multiple identifications. What does it mean to be American writer and, specifically, an American woman writer of colour? How do these writers engage with their difference, with their racial and sexual separation from mainstream America? How do they negotiate their hybrid existence? What vision of home and of belonging are they expressing through their writings? These are merely some of the questions we will seek to understand, answer, and question again. Some of the writers whose works we will read are Paule Marshall, Jhumpa Lahiri, Karen Tei Yamashita, Sara Suleri, and Toni Morrison. Our reading of fiction will be supplemented with critical race theory and postcolonial feminist texts. The selection of texts should allow us to engage with conceptions of the diaspora and the extent to which women?'s writing offers us a different perspective on national, global, and sexual politics. What colour is the American palette?
GWSS 3390 Topics: Visual, Cultural, and Literary Studies: Gender in Dutch Literature and Film
3 credit(s);
Instructor: Oosterhoff, Jennieke A
Description: This exciting course, intended for students with an interest in Dutch culture and women's lives, will introduce the students to a number of well-known Dutch women's writers and filmmakers. Texts and films have been selected by the instructor on the basis of their unique treatment of important (and sometimes controversial) issues in today's society, both in the Netherlands and, by comparison, the United States. A selection of topic areas to be discussed includes: female friendship, sisterhood, (same sex) marriage, work, motherhood, women's roles in wartime Holland, sexuality, and more. Invited speakers in the field of media studies (prof. Jaap Kooiman from the University of Amsterdam) and mass communication (professor Marco Ijzer from the University of Minnesota) will contribute to the cultural content of this course. Movies include works by renowned filmmakers such as Marleen Gorris, Eddy Terstall, Paula van der Oest and Dorothee van den Berghe. For those interested in a different perspective, this course is a must.
Style: 40% Film/Video, 40% Discussion, 10% Student Presentation, 10% Guest Speakers.
Grading: 50% reports/papers, 10% journal, 10% in-class presentation, 30% class participation.

GWSS 3390 Topics: Visual, Cultural, and Literary Studies: Gender, Labor, and Politics
3 credit(s);
Instructor: Wright, Michelle M
Description: Student may contact the instructor or department for information.

GWSS 3406 Gender, Labor, and Politics
3 credit(s);
Instructor: Bora, Papori
Description: In this course, we will start with an investigation into the relationship between feminism and universalism, specifically the relationship between feminism and liberalism in the context of western democratic theory. Then we will move on to a critical examination of the exclusions of liberalism. This shall constitute a motivation to move towards a more complicated understanding of feminism. We will argue that there cannot be one universal idea of feminism and that feminism is a relational analysis. Accordingly, we will investigate how categories such as gender, labor, class, sexuality, and nationality intersect. In this course, we will propose that a way of understanding feminist methodology is as an analytics of power, and we will argue why a feminist politics cannot avoid critical engagement with power structures such as colonialism, imperialism, neo-colonialism, and globalization. Learning Objectives: 1) To understand how feminist methodology analyzes different modes of power such as colonialism, imperialism and war, and globalization. 2) To understand the relationship between power and knowledge production. 3) To understand that meanings of various identity categories such as women, nation, worker, sexuality, and so on are not essential in themselves but are maintained by forces of power. 4) To answer the following questions: How do we understand feminist politics without essentializing the category of women? How can we articulate a radical feminist democratic politics? 5) How do we articulate political agency beyond rigid identity categories and universal ideas? 6) To understand how feminisms use difference productively for feminist politics. 7) To understand that there are different kinds of feminisms

GWSS 3408 Women in Modern America
3 credit(s); Credit will not be granted if credit has been received for: HIST 3346; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Horan, Caley Dawn
Description: History 3348 explores the broad historical themes that have shaped the lives and experiences of women in the United States from the Civil War to the present. Over the course of the semester, we will examine change over time in American understandings of gender and sexuality, as well as the shifting social, economic, and political roles of women in the United States. Emphasis will be placed on tracing the multiple and varied responses of women to these changes and their profound influence on American history in the modern era.

GWSS 3490 Topics: Political Economy and Global Studies: Gender and Family in the Islamic World
3 credit(s), max credits 6;
Instructor: Abidi, Cawo
Description: How is transnationalism or cross border social and economic relations maintained and perpetuated? How are these relations affecting identity? How is current transnationalism different from earlier migration? Is this gendered, and if so, how and why? The objective of this course is to explore these questions through theoretical and case study based literature on the subject. The first part of the course provides a historical overview on migration over the last two centuries. The second section centralizes identity in terms of transnational or dispersed communities. The aim of this section is to introduce the complex web of culture, agency and structure in play when dealing with migration. The third section presents case studies on the social and economic relations of transnational communities. The nature of family connections across borders and the economic ties of those who migrated with their families in the home country is discussed. The role of gender in these relations is also explored. The final section of the course deals with the role of the nation-state in transnationalism.
Style: 50% Lecture, 25% Film/Video, 25% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% in-class presentation.

3 credit(s), max credits 6;
Instructor: Zita, Jacquelyn N
Description: AGRICULTURAL JUSTICE, ORGANIC FARMING AND THE FUTURE OF FOOD In this course we will emphasize the production and consumption sides of the global and local food system with a focus on the sustainable organic farming movement, kitchen-table activism and local and global alternative food movements. Through the lens of gender, race and class, we will examine the global food system, the rise of industrial farming, the plight of the small family farm, rural issues of gender, race and sexuality, and local food production practices. The post-war reconstruction of gender in the 1950s and the future of food will be studied at the level of high tech and chemically intensive production in our global food/capital/genomic economies and at the level of our local farming practices, women and people of color farming mobilizations, the politics of place, and personal eating ethics. Alternative food and farming practices will be explored in our local area with some time required to helping out in urban community gardens or local organic-certified farms and attending selected lectures and workshops on campus and in our area. The class will also include a required all-day Saturday field trip on April 18 to organic farms and alternative communities in east central Minnesota and western Wisconsin. It is recommended that students add a fourth or fifth credit to this class by enrolling in GWSS Directed Studies: Organic Farming: Theory and Practice (Wednesday mornings ) and also enroll in AGRO 3131 Student Organic Farm Planning Growing and Marketing. Contact Professor Zita (ztita001@umn.edu) directly about the additional Directed Studies credits.
Style: 30% Lecture, 30% Discussion, 20% Small Group Activities, 20% Field Trips. All day field trip required: Saturday April 18. Recommended that students enroll for additional credits in Directed Studies: Organic Farming/Theory and Practice and AGRO 3131.
Grading: 60% reports/papers, 20% reflection paper, 20% class participation, field trip, hands-on experience, and attendance at...
outside lectures required

GWSS 3983 Directed Study
3 credit(s); max credits 12, 9 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Zita, Jacquelyn N
Description: This directed studies is open to all students but especially for students enrolled in GWSS Agricultural Justice, Organic Farming and the Future of Food. The content of this course will cover specific theories and techniques involved in sustainable organic farming as well as the philosophies behind growing food on eco-friendly organic farms and gardens. This is a "how to?" class especially designed for students who want to learn how to grow organic food, interested in working on organic farms or starting their own small farm or garden project. Attendance at the MOSES Organic Farming Conference, February 26-28 in La Crosse, Wisconsin is a required assignment. Two site visits to local farms will also be required during the semester. It is recommended that students also enroll in Student Organic Farm Planning Growing and Marketing AGRO 3131 which meets Mondays and Fridays from 11:45 to 1:40 on the St. Paul campus. This combination of courses will provide students with an intensive semester focus on organic farming. This Directed Studies is open to all interested students including but not limited to GWSS 3xxx. Students will set up individualized directed studies contracts for variable credits with Professor Zita. Weekly work group meetings will be held Wednesday mornings 8:15-9:30.
Style: 20% Lecture, 40% Small Group Activities, 40% Field Trips
Grading: 80% special projects, 20% attendance.

GWSS 4108W Senior Seminar: Writing
3 credit(s); prereq WoSt [jr or sr]; Meets CLE req of Writing Intensive;
Instructor: Giusti, Jessica
Description: Student may contact the instructor or department for information.

GWSS 4122 Philosophy and Feminist Theory
3 credit(s); prereq 8 crs in [philosophy or women's studies] or instr consent; Credit will not be granted if credit has been received for: PHIL 4622;
Instructor: Scheman, Naomi
Description: This course explores questions of realism and objectivity, specifically concerning identity, by bringing together three (overlapping) lines of theorizing: work in literary theory under the heading of ?post-postivist realism,? critical race theory, and Wittgensteinian feminist theory. The genesis for the course was my discovery that a paper of mine from the 1970s had provided a central example for a 1993 paper of Satya Mohanty?7s that is the germinal work in post-postivist realism. A 2000 collection of papers articulating that position is one of the core texts for our class, along with some of the work that (totally independently?) I have been doing in the 30 years since my original paper, and some of the work (in philosophy and critical race theory) that has influenced me. My hope is that this triangulation will shed light on a central issue in philosophy and feminist theory, namely, how to make sense of truth claims (especially those that seem to be needed for effective political critique and activism) without appeal to problematically foundationalist metaphysics and epistemology.
Style: 40% Lecture, 60% Discussion.
Grading: 55% reports/papers, 45% reflection paper. web and in-class participation can improve one's grade
Exam Format: N/A

GWSS 4190 Topics: Theory, Knowledge, and Power: History of the Body
3 credit(s); prereq Sr or grad student or instr consent;
Instructor: Kunzel, Regina G
Description: Does the body have a history? In reflecting upon new scholarship on the body from a range of disciplines, this course challenges assumptions about what we take to be deeply natural and stable over time and space ? our bodily selves. We will read work that conceives the body as a subject of historical research and interpretation, paying particular attention to the constitution of the body in relation to historical configurations of sex, gender, and sexuality; race; notions of (dis)ability, normality, and illness; the ethnographic display of bodies; body modification; and discipline and surveillance.
Style: 10% Lecture, 5% Film/Video, 70% Discussion, 10% Small Group Activities, 5% Student Presentation.
Grading: 25% final exam, 25% reports/papers, 25% reflection paper, 25% class participation.

GWSS 4402 Rebels, Radicals, and Revolutionaries: History of Western Feminisms
3 credit(s), max credits 4, 1 repeat allowed;
Instructor: Detournay, Diane Angela
Description: This course critically examines what it means to narrate the history of Western feminism, and seeks to put into question the underlying assumptions that motivate such a project. We will begin by exploring how disciplinary history represents the past and constitutes its objects of study, in order to think about the questions we need to bring to feminist history. We will then turn our attention to how Women?s Studies has sought to mend the (patriarchal) erasures of History by telling its own tale of ?rebels, radicals, and revolutionaries,? and the problems and exclusions it has encountered in the process. The second section of the course engages with figures that are an established part of the feminist canon, and our task will be to see what we can learn about the structure of liberalism by reading their texts. Specifically, we will work to dismantle the progress narrative of women?s liberation, and understand how the category of race is a constitutive element in how feminism understood citizenship, democracy, equality and the political individual. We will end by applying our critique of liberal feminism to contemporary articulations of universal women?s rights and global feminism, and explore what our journey through the historical antecedents of these arguments can contribute to this conversation?a conversation that is of central importance to postcolonial and transnational feminism.

GWSS 4490 Topics: Political Economy and Global Studies: Women & Holocaust; Gender, Memory & Representation
3 credit(s); prereq Sr or grad student or instr consent;
Instructor: Baer, Elizabeth R
Description: Student may contact the instructor or department for information.

GWSS 4505 Legislative Internship
3 credit(s); prereq [4504 or equiv or grad student], dept consent;
Instructor: Brawington, Claudia Keagy
Description: Discussion group and learning community for students working as interns for a Minnesota legislator during the year's legislative session.

3 credit(s), max credits 6;
Instructor: Isoko PhD, Zenele
Description: This is an interdisciplinary course that critically examines the activisms of people of color in urban America. This course is comprised of writings that have emerged from feminist studies, queer studies, political science, urban anthropology and political geography. In this course, the spatial dimensions of political agency are explored as well as the discursive strategies that make the activisms of people of color both compelling and possible. We will engage topics as diverse as hip hop, immigration, poverty, the criminalization of black and brown youth, gender-based violence and globalization. This course aims to stimulate new theorizing on space and identity, as well as foster policy-oriented solutions to contemporary urban problems from a social justice perspective.
Grading: 20% final exam, 30% reports/papers, 30% special projects, 20% attendance.

GWSS 5122 Philosophy and Feminist Theory
3 credit(s); prereq 8 crs in [philosophy or women's studies] or instr consent; Credit will not be granted if credit has been
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009

GWSS 5690 Topics: Women, Society, and Race in the United States: Space, Identity and Agency in the Black Diaspora

3 credit(s), max credits 6;
Instructor: Isole Ph.D. Zeneze

Description: This interdisciplinary course critically examines the spatiality of women of color in the United States, and in the Black Diaspora. This course is comprised of writings that have emerged from urban anthropology, human geographies, and contemporary social movements. We will devote special attention to recent black feminist theorizing on the interplay between black female subjectivity and spatiality. The spatial dimensions of political agency are explored, as well as the discursive strategies that make the activisms of people of color compelling and possible. This course aims to stimulate new theorizing on space and identity, as well as foster policy-oriented solutions to contemporary urban problems from a social justice perspective.

Grading: 20% final exam, 30% reports/papers, 30% special projects, 20% attendance.

GWSS 5690 Topics: Women, Society, and Race in the United States: Race, Gender and Health Policy

3 credit(s), max credits 6;
Instructor: Santos, Sonia Beatriz dos

Description: Students may contact the instructor or department for information.

GWSS 8109 Feminist Theories and Methods II

3 credit(s); prerequisite Feminist studies PhD or grad minor student or instr consent
Instructor: Zita, Jacquelyn N

Description: This course explores questions of realism and objectivity, subjectivity and subjectifying identity, by bringing together three (overlapping) lines of theorizing: work in literary theory under the heading of ?post-positivist realism,? critical race theory, and Wittgensteinian feminist theory. The genesis for the course was my discovery that a paper of mine from the 1970?s had provided a central example for a 1993 paper of Satya Mohanty?s that is the germinal work in post-positivist realism. A 2000 collection of papers articulating that position is one of the core texts for our class, along with some of the work that (totally independently) I have been doing in the 30 years since my original paper, and some of the work (in philosophy and critical race theory) that has influenced me. My hope is that this triangulation will shed light on a central issue in philosophy and feminist theory, namely, how to make sense of truth claims (especially those that seem to be needed for effective political critique and activism) without appeal to problematically foundationalist metaphysics and epistemology.

Style: 40% Lecture, 60% Discussion.

Grading: 55% reflection paper, 45% reflection paper. web and in-class participation can improve one's grade.

Exam Format: N/A

GWSS 8190 Topics: Feminist Theory: Feminist and Queer Explorations in Troublemaking

A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed;
Instructor: Puotinen, Sara Lynne

Description: What are the political and ethical possibilities for making trouble? How have selves or communities made trouble in effective ways? What would it mean to think about troublemaking as a virtue? What are the limits of troublemaking? What are the links between troublemaking and feminist theoretical activism? Radical democracy? Queer theory and practice? Humor? Critical thinking and philosophy? In this graduate seminar, we will explore all of these questions (and more) as we closely examine the nature and practice of troublemaking. We will begin by examining the specific ways that troublemaking as a practice and a troublemaker as a label have been used to dismiss and deem improper or deviant the theories, experiences, and activities of individuals and communities who challenge the status quo and/or work for social justice. We will closely examine how troublemaking and the troublemaker are represented and performed within specific social contexts and how race, class, gender, sexuality and ethnicity shape our understandings (and evaluations) of them. Then, we will critically explore the ethical and political potential of troublemaking, both as a practice and as an attitude/quality of character. In particular, we will look at how making trouble functions in a wide range of feminist and queer theoretical, political and ethical projects of transgression and transformation. While this course will draw upon a wide range of disciplines and methodologies, we will give particular attention to troublemaking in philosophical and ethical contexts. Some of the authors we will be reading include: Judith Butler, Michel Foucault, Kate Bornstein, bell hooks, Cornel West, Chantal Mouffe, Luce Irigaray, Dorothy Allison, Maria Lugones, Chela Sandoval, Audre Lorde, Cynthia Willett and Lisa Tessen.

GWSS 8190 Topics: Feminist Theory: Gynomania: Theorizing the Pleasures of Violence

A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed;
Instructor: Murthy, Pashmina V

Description: In the summer of 2008, a suspected witch in a village in India was beaten with sticks, burned with a hot iron, and finally pushed onto a burning pyre. The accused was a second woman, who claimed that a divine power instructed her to punish the witch? How feminine is violence? In this course, we will examine the flip side of gendered brutality by theorizing violence perpetrated by women, often though not exclusively against other women. We will begin by looking at the violence encapsulated by social and psychic forces of normatization. From there, we will move to exploring the shifting divisions between the unfeminine and the hyper-feminine, between sexuality and monstrosity, and between the asexual and the erotic. Some of the specific forms we might consider would include witch-hunts, sexual contracts, fantasy, horror, and asceticism. To aid us in our attempt at theorization, we will consider a variety of texts, including 18th century medical treatises, anthropological accounts, gothic Romantic fiction, and folklore. A study of the development of a naming and performance of violence ? and particularly the construction of the monstrous feminine in cinema ? would be incomplete without engaging with the contributions of psychoanalytic theory to such a project. In the course of this semester, we will grapple with a spectrum of thinkers, including Sigmund Freud, Anna Freud, Jacques Lacan, Julia Kristeva, Luce Irigaray, Gilles Deleuze, Karen Homey, Georges Bataille, and Kaja Silverman.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**GWSS 8996 Feminist Studies Colloquium**
S-N only, 1 credit(s), max credits 4, 4 repeats allowed; prerequisite Grad major or minor in feminist studies; Instructor: Scheiman, Naomi
**Description:** Student may contact the instructor or department for information.

**General Dentistry**
15-209 MoosT

**GEND 5153 Advanced General Dentistry Seminar III**
S-N only, 2-10 credit(s), max credits 15, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 5256 Advanced General Dentistry Clinic III**
S-N only, 5-15 credit(s), max credits 15, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 5263 Advanced General Dentistry Clinical Administration III**
S-N only, 1-10 credit(s), max credits 10, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 5266 Advanced General Dentistry Clinic VI**
S-N only, 1-15 credit(s), max credits 15, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 6153 General Practice Seminar III**
S-N only, 2-10 credit(s), max credits 10, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 6256 General Practice Clinic III**
S-N only, 10-15 credit(s), max credits 15, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 6263 General Practice Clinical Administration III**
S-N only, 5-10 credit(s), max credits 10, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**GEND 6266 General Practice Clinic VI**
S-N only, 10-15 credit(s), max credits 15, 1 repeat allowed; Instructor: Gambucci, James Robert
**Description:** Student may contact the instructor or department for information.

**Genetics, Cell Biology and Development**
6-160 Jackson Hall

**GCD 3022 Genetics**
3 credit(s); prerequisite BIOL 1002 or BIOL 1009; credit will not be granted if credit has been received for: BIOL 4003; Instructor: Brooker, Robert James
**Description:** Student may contact the instructor or department for information.

**GCD 3022 Genetics**
3 credit(s); prerequisite BIOL 1002 or BIOL 1009; credit will not be granted if credit has been received for: BIOL 4003; Instructor: Kirkpatrick, David T
**Description:** Student may contact the instructor or department for information.

**GCD 4015 Genetics Laboratory**
2 credit(s); prerequisite 3022 or BIOL 4003 or BioC 4332; Instructor: Merriman, Peter Jason
**Description:** Student may contact the instructor or department for information.

**GCD 4015 Genetics Laboratory**
2 credit(s); prerequisite 3022 or BIOL 4003 or BioC 4332; Instructor: Franck, Peter John
**Description:** Student may contact the instructor or department for information.

**GCD 4025 Cell Biology Laboratory**
2 credit(s); prerequisite BIOL 4004 or instr consent; Instructor: Norrander, Jan Marie
**Description:** Student may contact the instructor or department for information.

**GCD 4025 Cell Biology Laboratory**
2 credit(s); prerequisite BIOL 4004 or instr consent; Instructor: Norrander, Jan Marie
**Description:** Student may contact the instructor or department for information.

**GCD 4034 Molecular Genetics**
3 credit(s); prerequisite BIOL 4003, BIOL 4004; advanced bioscience undergrad recommended; Instructor: Simon, Jeffrey A
**Description:** Molecular genetics of eukaryotes. Topics include gene structure and organization, regulation of gene expression, RNA splicing and processing, chromatin structure and function, chromosome biology, and comparative genome analysis. The course will cover techniques used in molecular genetics research such as recombinant DNA technology, targeted mutations, genome sequencing and manipulation, gene chip technology, and generation of transgenic organisms. The course will also detail the major eukaryotic model systems used in molecular genetics research, including fungi, nematodes, insects, and mice. Assigned readings will be from the textbook “Molecular Biology” (fourth edition by Robert F. Weaver) and will also include 8-12 articles from the primary research literature. Emphasis will be placed on evaluating and interpreting experimental data and approaches that reveal molecular genetic mechanisms. The course is intended for advanced bioscience undergraduates including those considering postgraduate training in biological or biomedical sciences.

**GCD 4111 Histology: Cell and Tissue Organization**
4 credit(s); prerequisite BIOL 4004 or instr consent; Instructor: Bauer, G. Eric
**Description:** Structure and function of human tissues and organs. Lectures present electron microscopy, light microscopy, cell physiology, and cell biology of the major organ systems. Labs concentrate on light and electron microscopy of human cells, tissues, and organs. There are 3 lecture exams and 3 lab practical exams.

**GCD 4134 Endocrinology**
3 credit(s); prerequisite BIOL 3211 or Biol/BioC 3021 or BioC 4331 or instr consent; Instructor: Iwanij, Victoria
**Description:** Student may contact the instructor or department for information.

**GCD 4134 Endocrinology**
3 credit(s); prerequisite 3022 or BIOL 4003 or instr consent; Instructor: Oetting, William Starr
**Description:** Student may contact the instructor or department for information.
GCD 4151 Molecular Biology of Cancer
3 credit(s); prereq Biol 4003;
Instructor: Bardwell, Vivian June
Description: The course will focus on the regulatory pathways involved in directing the normal development of eukaryotic organisms and how disruption of these pathways can lead to abnormal cell growth and cancer. Additional topics will include causes, detection, treatment, and prevention of cancer. This course will be co-taught by Vivian Bardwell and David Largaespada. Text: Principles The Biology of Cancer By Robert Weinberg. Target audience: upper level undergraduates and non-major graduate students.
Style: 95% Lecture, 5% Discussion.
Grading: 63% mid exam, 37% final exam.
Exam Format: multiple choice, short answer, short essay.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Gale, Cheryl Ann
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Kren, Betsy Jean
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Bowles, Walter Ray
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Schmehel, Stephen Christopher
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Lohr, Jamie Lynne
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Springer, Nathan Michael
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Tam PhD, Patty
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Campbell, Colin R
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Zarkower, David A
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Wei, Li-Na
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Vance, Carroll P
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Jardine, Paul James
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Stephens, David William
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Petryk, Anna
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Wright, Robin
Description: Student may contact the instructor or department for information.
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<td>Instructor:                        Robin M. Wright,</td>
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<td>Instructor:                        Dan S. Kaufman,</td>
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<td>Instructor:                        Anna Petryk,</td>
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<td>Instructor:                        Mark A. Wright,</td>
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GCD 8131 Advanced Genetics
3 credit(s); prereq 3022 or Biol 4003, BioC 3021 or BioC 4331 or instr consent;
Instructor: Greenstein, David I.
Description: Student may contact the instructor or department for information.

GCD 8161 Advanced Developmental Biology
3 credit(s); prereq [4034 or 8121 or BioC 8002], [8131 or Biol 4003], Biol 4004 or instr consent;
Instructor: Greenstein, David I.
Description: Student may contact the instructor or department for information.

GCD 8900 Seminar
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;
prereq Grad MCDG major or instr consent;
Instructor: Hays, Tom S
Description: Student may contact the instructor or department for information.

GCD 8900 Seminar
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;
prereq Grad MCDG major or instr consent;
Instructor: Koob, Michael D
Description: Student may contact the instructor or department for information.

GCD 8912 Genetic Counseling in Practice
A-F only, 4 credit(s); prereq MCDG MS student with genetic counseling specialization or instr consent;
Instructor: Ahrens, Mary Jarvis
Description: Student may contact the instructor or department for information.

GCD 8914 Ethical and Legal Issues in Genetic Counseling
A-F only, 3 credit(s); prereq MCDG MS student with genetic counseling specialization or instr consent;
Instructor: LeRoy, Bonnie S
Description: Student may contact the instructor or department for information.

GCD 8993 Directed Studies
1-5 credit(s), max credits 15, 15 repeats allowed; prereq Grad MCDG MS student with genetic counseling specialization or instr consent;
Instructor: LeRoy, Bonnie S
Description: Student may contact the instructor or department for information.

GCD 8994 Research
S-N only, 1-5 credit(s), max credits 20, 20 repeats allowed; prereq MCDG MS student with genetic counseling specialization or instr consent;
Instructor: LeRoy, Bonnie S
Description: Student may contact the instructor or department for information.

GIS 5530 GIS Internship
S-N only, 1-3 credit(s), max credits 6; prereq instr consent, strong GIS/mapping skills;
Instructor: McMaster, Susanna Akiko
Description: Student may contact the instructor or department for information.

GIS 5572 Advanced Arc/Info
3 credit(s); prereq S5571, Geog 5561 or equiv, status in MGIS program or instr consent;
Instructor: Lindberg, Mark B
Description: This is an advanced course in ArcInfo and has three main components: in-depth exploration of the six themes emphasized in GIS 5571; extension into selected areas (e.g., dynamic segmentation, grid processing, address matching, data exchange, large-scale projects, spatial statistics); and macro-language programming. Students completing this course will be able to work independently at an advanced level in ArcInfo.

GIS 5575 Surveying and the Global Positioning System (GPS)
2 credit(s); prereq Geog 5561 or equiv, status in MGIS program or instr consent;
Instructor: Zenk, David A
Description: This course provides an introduction to surveying techniques of use to GIS professionals, including the Global Positioning System. Topics include: basic traditional survey methods, including horizontal and vertical location techniques; geodesy; data adjustment; datums and ellipsoids; coordinate systems; and transformations.
Style: 80% Lecture, 10% Discussion, 10% Laboratory.
Grading: 40% mid exam, 40% final exam, 20% problem solving.
Exam Format: Multiple choice

GIS 5577 Spatial Data Administration
2 credit(s); prereq instr consent;
Instructor: STAFF
Description: This course prepares students for professional tasks that require administration of spatial databases. Technical topics include: database design; data quality; data maintenance; and technical documentation. Strategic topics include: the role of geographic information within organizations; costs and benefits involved in database administration; and database development project management. The course emphasizes sound database administration procedures in the effective functioning of an organization.

GIS 5578 GIS Programming
3 credit(s); prereq MGIS student or instr consent;
Instructor: Loeesch, Timothy N
Description: This course exposes students to the opportunities and flexibility that computer programming can offer to the application of GIS technologies. This is a programming class for Geographers and not a GIS class for programmers. Generally speaking, people who attend this class have little or no programming experience. The class aims to provide graduate level students skills they need to be proficient at Geoprocessing and automating geoprocessing with the aid of scripting and programming languages. We use Python and Visual Basic for Applications in this class as we rely on ESRI products for our teaching platform. What you do need is a solid understanding of the fundamentals and concepts of spatial technology and a good working knowledge of ArcMAP GIS desktop software.
Style: 60% Lecture, 40% Laboratory.

GIS 8990 MGIS Capstone Project
A-F only, 2-6 credit(s), max credits 6, 3 repeats allowed; prereq MGIS, instr consent;
Instructor: McMaster, Susanna Akiko
Description: Student may contact the instructor or department for information.

Geographic Information Science
414 Social Science Building

GIS 5530 GIS Internship
S-N only, 1-3 credit(s), max credits 6; prereq instr consent, strong GIS/mapping skills;
Instructor: McMaster, Susanna Akiko
Description: Student may contact the instructor or department for information.

GIS 5572 Advanced Arc/Info
3 credit(s); prereq S5571, Geog 5561 or equiv, status in MGIS program or instr consent;
Instructor: Lindberg, Mark B
Description: This is an advanced course in ArcInfo and has three main components: in-depth exploration of the six themes emphasized in GIS 5571; extension into selected areas (e.g., dynamic segmentation, grid processing, address matching, data exchange, large-scale projects, spatial statistics); and macro-language programming. Students completing this course will be able to work independently at an advanced level in ArcInfo.

Geography
414 Social Sciences Building

GEOG 1301W Our Globalizing World
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Saldanha, Arun
Description: Student may contact the instructor or department for information.

GEOG 1403 Biogeography of the Global Garden
2 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Saldanha, Arun
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
4 credit(s); Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme; Instructor: Wallace, Robert
Description: Student may contact the instructor or department for information.

GEOG 1425 Introduction to Meteorology
4 credit(s); prerequisite high school algebra; Credit will not be granted if credit has been received for: ESPM 1425; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core; Instructor: Griffis, Timothy John
Description: Student may contact the instructor or department for information.

GEOG 1425 Introduction to Meteorology
4 credit(s); prerequisite high school algebra; Credit will not be granted if credit has been received for: ESPM 1425; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core; Instructor: Griffis, Timothy John
Description: The goal of GEOG 1425 is to introduce the basic physical, chemical and biological processes that drive changes in Earth's weather and climate. Topics will include: radiation and energy exchange; greenhouse effect; stratospheric ozone depletion; severe weather hazards; general circulation of the atmosphere; climate teleconnections including El Nino, and impacts of human activities on climate. Weekly field and computer labs will be used to investigate how weather and climate data are measured, analyzed and interpreted. All lecture and lab material will be made available on the course web site.
Style: 80% Lecture, 20% Discussion.
Grading: 30% mid exam, 30% final exam, 10% class participation, 30% laboratory evaluation.
Exam Format: Multiple choice, short answer, short essay

GEOG 1502 Mapping Our World
4 credit(s); Meets CLE req of Mathematical Thinking Core; Instructor: Harvey, Francis
Description: Maps are for most people the most common form of geographic communication. This course will introduce you to the world of maps and their mathematical foundations. With a better understanding of the roles of maps in communication and basic mathematical techniques involved in collecting, preparing, and presenting maps and geographic information, this course prepares you for working in many areas with maps and geographic information. Geography 1502 serves as an introduction to courses in cartography and geographic information science (GIS) offered by the Department of Geography, including Geography 3561: Principles of Geographic Information Science and Geography 3511: Principles of Cartography. In exercises you will work with both conventional paper maps and computer-based maps and geographic information to understand maps and geographic information and learn basic principles of making maps.
Style: 30% Lecture, 20% Discussion, 50% Laboratory.
Grading: 21% mid exam, 21% final exam, 10% quizzes, 6% class participation, 42% laboratory evaluation.
Exam Format: Multiple choice, matching, calculations

GEOG 3311 Geography of Minnesota
3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Environment Theme; Instructor: Squires, Roderick H
Description: The modern state can be characterized as the outcome of numerous debates about the role of government, commonly termed public policy or law, and the behavior of individuals and corporations in reaction to such public policy. The political and legal entity we know as Minnesota - comprising landscapes and people - reflects the result of several iterations of debate and consequential behavior. Most, if not all, of its tangible and intangible characteristics have evolved as we have "muddied through" 150 years. Only through this approach can we understand the modern landscape of Minnesota and present behavior of Minnesotans. The class period will be divided into two, a lecture followed by a computer lab in which you will be free to work on your projects. The grades are based on class attendance and on performance in five projects, a long one worth 50% of the grade, and four smaller ones. The course is designed for both undergraduate majors and non-majors, anyone interested in the history and geography of Minnesota and the relations of the state with other parts of the country and the world.
Style: 50% Lecture, 50% Laboratory.
Grading: 100% reports/papers.
Exam Format: no exam

GEOG 3371W Cities, Citizens, and Communities
3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core; Instructor: Clough, Nathan Lee
Description: Student may contact the instructor or department for information.

GEOG 3371W Cities, Citizens, and Communities
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive; Instructor: Clough, Nathan Lee
Description: Student may contact the instructor or department for information.

GEOG 3373 Changing Form of the City
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; Instructor: Miller, Roger P
Description: Cities first appeared about 7,000 years ago. Only in the past 100 years have they become the dominant form of settlement in the "developed" world. We study cities not only because we are interested in them for their own sake, but because they serve as mirrors that reflect their makers and encouraged. Visual materials (power-point, overhead transparencies, slides, and occasional videos) will be used extensively. Course materials are the same for Geog 1973 and Geog 3973, but those registered in 3973 are expected to perform at a much higher level of analysis, and this will be reflected in the point scale for assignments.
Style: 75% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities.
Grading: 15% mid exam, 25% final exam, 60% reports/papers.

GEOG 3101 Geography of the United States and Canada
4 credit(s); Credit will not be granted if credit has been received for: GEOG 3102; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Hart, John Fraser
Description: A visual tour of the continent, with ca. 80 slides in each lecture. Emphasizes the ways in which different groups of people have interacted with different physical environments to produce distinctive regions. Satisfies the Social Science Core and Cultural Diversity theme requirements. The instructor has a quirky sense of humor, and the lectures are interesting.
Style: 100% Lecture.
Grading: 60% mid exam, 30% final exam, 10% reports/papers.
Exam Format: Multiple choice based on maps

GEOG 4024 Political Geography
4 credit(s); Meets CLE req of Psychological Found Core; meets CLE req of Social Science Core; Instructor: Pentel, Paula R
Description: This course is a survey of the historical and contemporary geographical patterns of the Twin Cities metropolitan area. Questions raised include: Where are things located? Industry and transportation, housing, people of diverse backgrounds and resources, retail trade and services? Why are they located as they are? What are things like at the neighborhood level and how have these changed over time? How do economic and demographic forces produce changes on the landscape? How do publicly sponsored planning and redevelopment programs try to correct the consequences of past actions? Class format is lecture and discussion. Questions are
inhabitants, albeit imperfectly. In this course you will learn not just about cities, but about the civilizations that made them. The course pays particular attention to ancient cultures and cities; the medieval European city; Renaissance and Baroque cities; mercantile and industrial cities; the development of planning; colonial cities; utopian cities; and planning triumphs and disasters. Although the course draws broadly on world history, enough material will be covered in class to provide at least the rudimentary knowledge needed for this course. The course is primarily lecture and small-class discussion. We are encouraged to and solicited. Extensive use is made of slides and other visual aids.

The course is intended for undergraduate majors and non-majors. It satisfies the History Core CLE requirement, and the International Perspectives Theme requirement. Texts include Lewis Mumford, The City in History; John Reps, Town Planning in Frontier America; and James E. Vance Jr. The Continuing City: Urban Morphology in Western Civilization.

Style: 90% Lecture, 10% Discussion.
Grading: 30% mid exam, 35% final exam, 35% reports/papers.
Exam Format: Essay-questions, distributed before exam, 1 handwritten page of notes allowed

**GEOG 3374V Honors: The City in Film**

4 credit(s); prerequisite: Credit will not be granted if credit has been received for: GEOG 3374W; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;

Instructor: Miller, Roger P

Description: Movies are one of the key modes of discourse in the second half of the twentieth century. We have grown up with the movies, and some of us are at least as familiar with cinematic portrayals as we are with novels, poetry, painting and sculpture (though perhaps not television). Today our understanding of an increasingly urban world is mediated, in part, through cinematic representations. Of course, the nature of cities, and our reactions to them, have also changed during the approximately one hundred years of cinematic portrayal. This is the period in which the US became an urban nation, and then a suburban one. It is also the era in which an international metropolitan culture has blossomed, and in which metropolitan landscapes have been challenged by globalization. As these changes have occurred, they have been mirrored, sometimes presciently, sometimes imperfectly, in the cinematic record. In this course, we will view films in which the city, or ideas about urbanism, play an important role. We will look at films from the 1920s forward to today, from a variety of national settings. We will concentrate on a number of themes: attitudes toward urban form and technology; social and cultural conflicts in the urban realm; political and economic processes; utopian and dystopian views of the urban future; and changing gender relationships in urban society. We will also relate these cinematic views to a series of seminal writings on urbanism, including some which address relations between more-developed and less-developed societies, the ways in which cinematic representations reflect those relations, and how cinema functions ideologically in different settings. Students will be graded on their participation in recitation section discussions, on three movie reviews, and on a series of in-class quizzes.

Style: 20% Lecture, 40% Film/Video, 40% Discussion.
Grading: 60% reports/papers, 30% quizzes, 10% class participation. Percentages are different for grads/honors students.
Exam Format: No exams -- six quizzes, with the lowest grade dropped.

**GEOG 3379 Environment and Development in the Third World**

4-credit(s); prerequisite: soph or jr or sr; Credit will not be granted if credit has been received for: GLOS 3303; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme;

Instructor: Samatar, Abdi Ismail

Description: This course has three objectives: (a) to advance students' knowledge of the dynamics of capitalism as a global system, its insatiable appetite for resources, and effect on human development; (b) to give students analytical tools to understand the relationship between this expansive system, its enormous productive and destructive capacity (social and ecological); (c) to enable students to gain substantive knowledge about how this system impacts on Africa, Asia, and Latin America, and the social and ecological struggles in those regions. Topic covered include: Dynamics and patterns of economic development; Uneven global consumption of natural resources; Poverty and over-consumption as the twin sources of environmental degradation; Population and development. Urban environment in the South; Gender-class and environmental struggles; waste and the global commons. Teaching methods: There are lectures and one discussion session per week.

Several students will lead each weekly discussion of current environment/development topic. We watch and critique several documentaries. Authors include: Bina Agarwal, Barry Commoner, Michael Watts, P. Blaize; Dharam Ghaï; David Harvey. Intended audience: Social and natural science undergraduates.

Style: 20% Lecture, 35% Discussion.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% class participation. class participation, exams

**GEOG 3381W Population in an Interacting World**

4 credit(s); prerequisite: soph; Credit will not be granted if credit has been received for: GLOS 3303; Meets CLE req of Environment Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Matejsova, Tatiana

Description: Student may contact the instructor or department for information.

**GEOG 3401 Geography of Environmental Systems and Global Change**

A-F only, 4 credit(s); prerequisite: soph or jr or sr; Credit will not be granted if credit has been received for: GEOG 5401;
Schedule.
Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class University of Minnesota - Course Guide for Twin Cities Campus Spring 2009
GEOG 3973 Geography of the Twin Cities
3 credit(s); Credit will not be granted if credit has been received for: GEO 1009; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Pentel, Paula R
Description: Student may contact the instructor or department for information.
GEOG 3985V Honors Senior Project Seminar
4 credit(s); prereq Honors, instr consent; Meets CLE req of Writing Intensive; Instructor: Ziegler, Susy S
Description: Student may contact the instructor or department for information.
GEOG 3985W Senior Project Seminar
4 credit(s); prereq [ Jr or sr ], instr consent; Meets CLE req of Writing Intensive; Instructor: Ziegler, Susy S
Description: Student may contact the instructor or department for information.
GEOG 4002W Environmental Thought and Practice
3 credit(s); prereq Jr or sr; Meets CLE req of Writing Intensive; Instructor: Braun, Bruce Philip
Description: How do we understand ‘nature’ in an age of technoscience? What is the relation between capitalism, science and nature? What does it mean to do the ‘cultural studies’ of nature? This course surveys competing approaches to understanding nature-human relations in contemporary social and political thought. The course will draw from a diverse literature, including cultural ecology, Marxist political ecology, feminist theory, literary criticism and science and technology studies. It’s objective will be to develop theoretical and analytical tools for investigating the social production of nature (both human and non-human). In the process, students will be challenged to think critically about knowledge formation, the construction of environmental imaginaries, the emergence of eco-movements, and the ideological frameworks and social conditions that organize and relate resource struggles, culture and identity. The course will be reading intensive and students should expect to take part regularly in class discussions. Style: 50% Lecture, 40% Discussion. film/video Grading: 20% mid exam, 20% final exam, 60% reports/papers. Exam Format: Essay/multiple choice
GEOG 4393 The Rural Landscape
4 credit(s); Instructor: Klink, Katherine
Description: The underlying theme to this course is that the natural environment provides the resources that sustain humans, and that our well being depends crucially on our interaction with the interdependence of the natural environment. We have three main objectives: 1. to understand the processes that create the patterns of the natural environment, specifically the patterns of climate, vegetation, soils, and landforms; 2. to comprehend how changes in the processes may influence spatial patterns; and 3. to study the potential of humans to cause changes in processes, spatial patterns, and ultimately, our natural resources. The course topics will be covered with a mixture of lectures, discussion, and computer-based lab work. Lab projects focus on environmental concepts discussed in class (climate, vegetation, and soils geography) and the lab projects lead up to each student’s final project. The final (term) project involves evaluating the local effects of global climatic change. Your analysis will focus primarily on a location within the United States (for which information will be more easily available). Your first task will be figuring out the current natural environment (climate, vegetation, and soils) for your location. Next you will determine the likely climatic changes at your location under doubled atmospheric carbon dioxide as predicted by several climate models. Style: 70% Lecture, 30% Discussion. Grading: 15% final exam, 30% reports/papers, 35% written homework, 20% additional semester exams. Exam Format: essay
GEOG 4374W The City in Film
4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: GEOG 3374W; Meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive; Instructor: Miller, Roger P
Description: Movies are one of the key modes of discourse in the second half of the twentieth century. We have grown up with the movies, and some of us are at least as familiar with cinematic portrayals as we are with novels, poetry, painting and sculpture (though perhaps not television). Today our understanding of an increasingly urban world is mediated, in part, through cinematic representations. Of course, the nature of cities, and our reactions to them, have also changed during the approximately one hundred years of cinematic portrayal. This is the period in which the US became an urban nation, and then a suburban one. It is also the era in which an international metropolitan culture has blossomed, and in which metropolitan landscapes have been challenged by globalization. As these changes have occurred, they have been mirrored, sometimes presciently, sometimes imperfectly, in the cinematic record. In this course, we will view films in which the city, or ideas about urbanism, play an important role. We will look at films from the 1920s forward to today, from a variety of national settings. We will concentrate on a number of themes: attitudes toward urban form and technology; social and cultural conflict in the urban realm; political and economic processes; utopian and dystopian views of the urban future; and changing gender relationships in urban society. We will also relate these cinematic views to a series of seminal writings on urbanism, including some which address relations between more-developed and less-developed societies, the ways in which cinematic representations reflect those relations, and how cinema functions ideologically in different settings. Students will be graded on their participation in recitation section discussions, on three ?movie reviews,? and on a series of in-class quizzes. Style: 20% Lecture, 40% Film/Video, 40% Discussion. Grading: 60% reports/papers, 30% quizzes, 10% class participation. Percentages are different for grads/honors students. Exam Format: No exams -- six quizzes, with the lowest grade dropped.
GEOG 5361 Geography and Real Estate
4 credit(s); Instructor: Squires, Roderick H
Description: Through lectures and field trips the course will examine the nature and history of land ownership in the United States with special reference to Minnesota. The focus will be on the mechanistic, legalistic, and historic characteristics of land ownership not the uses to which land has been put or the philosophical, sociological, or economic aspects of land ownership. More attention will be paid to the published and unpublished primary materials that characterizes the nature of land ownership in the United States than to the secondary literature. The course is designed for relatively senior undergraduates, both majors and non-majors, and graduates, anyone interested in understanding the role that land ownership plays in our modern society and has played in our nation’s history. Style: 50% Lecture, field trips Grading: 100% reports/papers. Exam Format: no exam
GEOG 5374W The City in Film
4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: GEOG 3374W; Meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive; Instructor: Miller, Roger P
Description: Movies are one of the key modes of discourse in the second half of the twentieth century. We have grown up with the movies, and some of us are at least as familiar with cinematic portrayals as we are with novels, poetry, painting and sculpture (though perhaps not television). Today our understanding of an increasingly urban world is mediated, in part, through cinematic representations. Of course, the nature of cities, and our reactions to them, have also changed during the approximately one hundred years of cinematic portrayal. This is the period in which the US became an urban nation, and then a suburban one. It is also the era in which an international metropolitan culture has blossomed, and in which metropolitan landscapes have been challenged by globalization. As these changes have occurred, they have been mirrored, sometimes presciently, sometimes imperfectly, in the cinematic record. In this course, we will view films in which the city, or ideas about urbanism, play an important role. We will look at films from the 1920s forward to today, from a variety of national settings. We will concentrate on a number of themes: attitudes toward urban form and technology; social and cultural conflict in the urban realm; political and economic processes; utopian and dystopian views of the urban future; and changing gender relationships in urban society. We will also relate these cinematic views to a series of seminal writings on urbanism, including some which address relations between more-developed and less-developed societies, the ways in which cinematic representations reflect those relations, and how cinema functions ideologically in different settings. Students will be graded on their participation in recitation section discussions, on three ?movie reviews,? and on a series of in-class quizzes. Style: 20% Lecture, 40% Film/Video, 40% Discussion. Grading: 60% reports/papers, 30% quizzes, 10% class participation. Percentages are different for grads/honors students. Exam Format: No exams -- six quizzes, with the lowest grade dropped.
GEOG 5401 Geography of Environmental Systems and Global Change
4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: GEOG 3401; Instructor: Klink, Katherine
Description: The underlying theme to this course is that the natural environment provides the resources that sustain humans,
and that our well being depends crucially on our interaction and interdependence with the natural environment. We have three main objectives: 1. to understand the processes that create the patterns of the natural environment, specifically the patterns of climate, vegetation, soils, and landforms; 2. to comprehend how changes in the processes may influence spatial patterns; and 3. to study the potential of humans to cause changes in processes, spatial patterns, and ultimately, our natural resources. The course topics will be covered with a mixture of lectures, discussion, and computer-based lab work. Lab projects focus on environmental concepts discussed in class (climate, vegetation, and soils geography) and the lab projects lead up to each student's final project. The final (term) project involves evaluating the local effects of global climatic change. Your analysis will focus primarily on a location within the United States (for which information will be more easily available). Your first task will be figuring out the current natural environment (climate, vegetation, and soils) for your location. Next you will determine the likely climatic changes at your location under doubled atmospheric carbon dioxide as predicted by several climate models.

**Style:** 65% Lecture, 25% Discussion, 5% Student Presentation.

**Grading:** 10% final exam, 30% reports/papers, 10% special projects, 25% written homework, 20% additional semester exams, 5% in-class presentation.

**Exam Format:** Essay

**GEOG 5423 Climate Models and Modeling**

3 credit(s); prereq 3401 or instr consent;
Instructor: Klink, Katherine

**Description:** This course is a survey of how climate is represented in simple (one-dimensional) and more complex (three-dimensional) climate models. The ultimate objective is for students to become more informed critics of the climate modeling literature by developing an understanding of the basics of climate modeling, and how models are, and can be, used. We evaluate the historical development of models and explore current avenues of research. Student projects include critical reading and discussion of the climate modeling literature, and projects using climate model results. The class format is a mixture of instructor lectures, student-led discussion and presentation, and in class project development. The target audience for the course is advanced undergraduates with some background in environmental or physical science, and graduate students in environmental physical science. Graduate and undergraduate students are graded seperately. The primary text is: A Climate Modeling Primer, 2nd edition (1997), by McGuffie and Henderson Sellers. The text is NOT required for purchase (copies will be on reserve in several campus libraries). Additional readings from the climate modeling literature also will be available on reserve.

**Style:** 40% Lecture, 40% Discussion, 20% Laboratory.

**Grading:** 10% mid exam, 10% final exam, 25% reports/papers, 40% written homework, 5% in-class presentation, 10% class participation.

**Exam Format:** Essay

**GEOG 5563 Advanced Geographic Information Science**

3 credit(s); prereq B or better in 3561 or 5561 or instr consent;
Instructor: Harvey, Francis

**Description:** Student may contact the instructor or department for information.

**GEOG 8002 Research Methods in Geography**

3 credit(s);
Instructor: Gidwani, Vinay Krishin

**Description:** Student may contact the instructor or department for information.

**GEOG 8200 Seminar: Urban Geography**

A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Kayzar, Brenda

**Description:** Student may contact the instructor or department for information.

**GEOG 8230 Theoretical Geography**

3 credit(s); prereq instr consent;
Instructor: Saldanha, Arun

**Description:** Student may contact the instructor or department for information.

**GEOG 8280 Biogeography**

3 credit(s), max credits 9, 3 repeats allowed; prereq instr consent;
Instructor: Ziegler, Susy S

**Description:** Student may contact the instructor or department for information.

**GEOG 8290 Seminar in GIS and Cartography**

3 credit(s); prereq instr consent;
Instructor: Edsall, Rob

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Adams, John S

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Martin, Judith A

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Lindberg, Mark B

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Lettieri, Helga

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Hart, John Fraser

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Gersmehl, Philip J

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Miller, Roger P

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Brown, Dwight A

**Description:** Student may contact the instructor or department for information.

**GEOG 8970 Directed Readings**

1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Samatar, Abdi Ismail

**Description:** Student may contact the instructor or department for information.
GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Klink, Katherine
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Weil, Connie
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Sheppard Eric
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Squires, Rodrick H
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Skaggs, Richard H
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Till, Karen E
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Braun, Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Gidwani, Vinay Krishin
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Ziegler, Susy S
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: McMaster, Susanna Akiko
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Harvey, Francis
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Henderson, George Lawlor
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Manson, Steven M.
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Shuman, Bryan Nolan
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Saldanha, Arun
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Kayzar, Brenda
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography
1-3 credit(s), max credits 15, 10 repeats allowed; prereq instr consent
Instructor: Braun, Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography
1-3 credit(s), max credits 15, 10 repeats allowed; prereq instr consent
Instructor: Gidwani, Vinay Krishin
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography
1-3 credit(s), max credits 15, 10 repeats allowed; prereq instr consent
Instructor: Wallace, Robert
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Adams, John S
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Martin, Judith A
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Lindberg, Mark B
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Leitner, Helga
Description: Student may contact the instructor or department for information.
GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Mc Master PhD,Robert B
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Hart,John Fraser
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Gersmehl,Philip J
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Miller,Roger P
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Brown,Dwight A
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Samatar,Abdi Ismail
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Klink,Katherine
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Well,Connie
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Sheppard,Eric
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Squires,Roderick H
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Skaggs,Richard H
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Till,Karen E
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Gidwani,Vinay Krishin
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Ziegler,Susy S
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Harvey,Francis
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Henderson,George Lawlor
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Manson,Steven M.
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Shuman,Bryan Nolan
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Kipfmueller,Kurt Foster
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Saldanha,Arun
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Ziegler,Susy S
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Kayzar,Brenda
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Hart,John Fraser
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Gersmehl,Philip J
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Miller,Roger P
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Brown,Dwight A
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Samatar,Abdi Ismail
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Klink,Katherine
Description: Student may contact the instructor or department for information.

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Instructor: Well,Connie
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Sheppard,Eric
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Squires,Roderick H
Description: Student may contact the instructor or department for information.

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1-5 credit(s), max credits 10; prereq dept consent
Instructor: Skaggs,Richard H
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Till,Karen E
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent
Instructor: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 3301 Soil Mechanics I
A-F only, 3 credit(s); prereq IT student, AEM 3031; Credit will not be granted if credit has been received for: CE 3301;
Instructor: Guzina,Bojan B
Description: Student may contact the instructor or department for information.

GEOE 4102W Capstone Design
A-F only, 4 credit(s); prereq CE 4301, CE 4401, CE 4501, CE 4502; Meets CLE req of Writing Intensive;
Instructor: Spack,Michael Patrick
Description: Teams of 3 - 5 students solve civil engineering
problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.

**Style:** 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project.

**Grading:** 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

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**GEOE 4102W Capstone Design**

A-F only, 4 credit(s); prereq CE 4301, CE 4401, CE 4501, CE 4502; Meets CLE req of Writing Intensive;

**Instructor:** Eickenberg, Paul Thomas

**Description:** Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.

**Style:** 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project.

**Grading:** 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

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**GEO 4301 Soil Mechanics II**

A-F only, 3 credit(s); prereq Upper division student in IT; 3301, CE 3301, or instr consent; Credit will not be granted if credit has been received for: CE 4301;

**Instructor:** Drescher, Andrew

**Description:** Student may contact the instructor or department for information.

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**GEO 4311 Rock Mechanics**

A-F only, 4 credit(s); prereq [[3301 or CE 3301], upper div or grad student in IT] or instr consent; Credit will not be granted if credit has been received for: CE 4352;

**Instructor:** Labuz, Joseph F

**Description:** Student may contact the instructor or department for information.

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**GEO 4352 Groundwater Modeling**

A-F only, 3 credit(s); prereq upper division or grad student in IT, 4351, CE 4351, or instr consent; Credit will not be granted if credit has been received for: CE 4352;

**Instructor:** Strack, Otto D

**Description:** Student may contact the instructor or department for information.

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**GEO 8300 Seminar: Geomechanics**

S-N only, 1-3 credit(s), max credits 4, 4 repeats allowed; Credit will not be granted if credit has been received for: CE 8300;

**Instructor:** Guzina, Bojan B

**Description:** Student may contact the instructor or department for information.

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**GEO 1001 Earth and Its Environments**

4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

**Instructor:** Whitney, Donna L

**Description:** Student may contact the instructor or department for information.

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**GEO 1001 Earth and Its Environments**

4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

**Instructor:** Kirkby, Kent Charles

**Description:** An introduction to the principles of geology with an emphasis on the physical processes that shape the Earth. Through lectures, slides, videos, and demonstrations, students learn how volcanoes, earthquakes, plate tectonics, wind, rivers, and glaciers have shaped our planet's landscape. In the laboratory sessions students learn to identify rocks and minerals, use them to interpret the Earth's past history, and understand how they affect our society. They will create geologic maps; locate earthquakes and choose environmentally sound landfill sites. A major goal of the course is to provide students with a better understanding of our planet in the context of current environmental issues and global change. GEO 1001 satisfies the Diversified Core Curriculum's requirements for both the environmental theme and as a physical science with lab. This course is designed for undergraduate students that are not geology majors. There are no college prerequisites. During the fall and spring semesters there is an optional Saturday field trip to the St. Croix River Valley and other local geologic sites.

**Style:** 55% Lecture, 40% Laboratory. Video

**Grading:** 45% mid exam, 20% final exam, 10% reports/papers, 25% laboratory evaluation.

**Exam Format:** Mid-term: Multiple choice, short answer/short essay Final: Multiple choice only.

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**GEO 1003 Dinosaur Evolution, Ecology, and Extinction:**

Introduction to the Mesozoic World

3 credit(s); Credit will not be granted if credit has been received for: GEO 5003;

**Instructor:** Kirkby, Kent Charles

**Description:** Dinosaurs and the Mesozoic Era are used to introduce four of the most important contributions of geology: geologic time; organic evolution; plate tectonics; and the integration of Earth systems. Our world's dynamic nature is revealed by focusing on an era when the Earth began to evolve its present geography, climate and ecological systems. The course also looks at the history and social implications of dinosaur interpretations. Our views of dinosaurs continues to change with new data and new concepts. Previous interpretations are considered in light of the then-existing evidence and social paradigms. Relatively few workers and a short history make dinosaur studies an excellent case study of the social aspects of scientific investigation. A variety of past and present controversies are covered during the course including: the recognition of fossils as remains of past life, organic evolution, continental drift, dinosaur physiology, the origin of mass extinctions and global warming. Evidence, pro and con, are presented with extended class discussions of the unresolved controversies. This course was designed for undergraduate, non-geology majors. There is an optional (but recommended) trip to the Science Museum.

**Style:** 85% Lecture, 15% Discussion.

**Grading:** 100% quizzes.

**Exam Format:** Multiple choice, short answer/short essay

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**GEO 1005 Geology and Cinema**

4 credit(s); Credit will not be granted if credit has been received for: GEO 1105; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

**Instructor:** Revenaugh, Justin

**Description:** GEO1005 offers an introduction to the Earth Sciences using the depictions of geology and geophysics offered by the popular media, cinema in particular, as springboards to discussion and development. Much of what most people believe about the geologic history of the Earth, life on it and the processes that shape it is gathered from films. Much of that &quot;knowledge&quot; is wrong, often very wrong, but the
myths promulgated by movies can be very enduring. GEO1005 exposes those myths and sets out a basic understanding of the modern Earth Sciences. We cover such topics as: formation of the solar system and Earth, Earth's 4.5-billion-year history, the fossil record of life on the planet, volcanism, earthquakes, climate change, streams, oceans, deserts, glaciers, natural resources and Earth stewardship. Emphasis is placed on the interactions between geologic processes, man and the environment, with the control of nature as an overarching theme. Each lecture topic will be prefaced with clips from Hollywood movies. Several movies will be shown in their entirety (the core, Dante's Peak and Jurassic Park) with students asked to critique the reality of science depicted in the movie. The laboratory component introduces students to minerals and rocks, geologic maps and the basics of geology field work. Material in lab follows that of lecture and offers students the opportunity to gain hands-on experience. Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core.

Style: 45% Lecture, 40% Laboratory. Videos Grading: 20% reports/papers, 50% quizzes, 10% in-class presentation, 20% laboratory evaluation.

Exam Format: Combination of multiple choice and short answer.

GEO 1081 Conspiracies, Fraud, and Deception in Earth History
1 credit(s);
Instructor: Pfannkuch,Hans-Olaf
Description: To show the history of development of geological ideas in the context of the intellectual background of their times, to demonstrate how the scientific method works and how it is capable of correcting errors as demonstrated by abuses exemplified in hoaxes, swindles and fraud from three centuries. The Beringer case takes an example from the transition period between fantastic speculation about fossils and their origin, and the first systematic scientific theories based on comparative anatomy and basic geological principles. The diamond caper demonstrates Clarence King's application of new quantitative theories on metamorphism and mineral genesis as well as field observations to unravel a fraudulent scheme. The Piltdown man controversy centers around the application of quantitative laboratory methods to accurately determine ages of fossil remains. All three demonstrate how people will believe what they want to believe even in a purely scientific context, but where the scientific method applied rigorously and with integrity will lead to uncover scientific fraud

Style: 65% Lecture, 35% Discussion.
Grading: 45% final exam, 45% reports/papers, 10% class participation.

Exam Format: short essay

GEO 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;
Instructor: Moskowitz,Bruce Matthew
Description: Student may contact the instructor or department for information.

GEO 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;
Instructor: Whitney,Donna L
Description: Student may contact the instructor or department for information.

GEO 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;
Instructor: Kirky,Kent Charles
Description: Style: 95% Lecture. Video

GEO 1102 Introduction to Earth History
3 credit(s); Credit will not be granted if credit has been received for: GEO 1002;
Instructor: Kirkby,Kent Charles
Description: Designed for undergraduate non-majors GEO 1102, a lecture-based version of GEO 1002, is an introduction to the evolution of Earth systems and life. Throughout the course we trace the development of the present ecosystem through the course of drifting continents, climate change and organic evolution. Along the way, students gain an appreciation of how science works, the interconnections of the Earth's physical and biological components, the fragility of ecosystems and the tenacity of life. The origin of life; causes of mass extinctions; and such major transitions as the rise of eukaryotes, multi-cellular life, and colonization of the land; furnish excellent opportunities to examine how scientific controversies are resolved. An exploration of past cosmologies also provides alternate views of the Earth and an appreciation for how societal views impact scientific investigation. A critical course goal is to provide students with a better understanding of the Earth's nature: how it works, how it has evolved, and how human activity has affected it. Students can become reacquainted with a world in which mammoths still lived while early Egyptian pyramids were built; and in which a combination of human hunting, agriculture, and natural climate change has resulted in extinctions whose scale rivals that of past mass extinction events.

Style: 85% Lecture. 15% Discussion.
Grading: 100% quizzes. grade is based on best 5 of 7 biweekly quizzes and final quiz

Exam Format: multiple choice and short essay

GEO 1105 Geology and Cinema
3 credit(s); Credit will not be granted if credit has been received for: GEO 1005;
Instructor: Revenaugh,Justin
Description: Student may contact the instructor or department for information.

GEO 1905 Freshman Seminar
A-F only, 2 credit(s), max credits 6; prereq freshman;
Instructor: Hudleston,Peter John
Description: Student may contact the instructor or department for information.

GEO 2302 Petrology
3 credit(s); prereq 2301 or instr consent;
Instructor: Whitney,Donna L
Description: This course is an introduction to the origin and evolution of igneous and metamorphic rocks, with an emphasis on the plate tectonic interpretation of rock sequences. The main goal of the course is to explain how igneous and metamorphic processes have built the Earth's crust. This involves both big-picture concepts (Why do volcanoes occur where they do? What happens when continents collide?) and detail (What is diopside? How do garnets change composition as they grow?). Geoscience majors (geology, geophysics) will gain information and skills necessary to use mineral assemblages and rock textures to interpret the origin and tectonic setting of igneous and metamorphic rocks.

Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 30% final exam, 30% laboratory evaluation, 10% problem solving. Each half of the class (igneous, metamorphic petrology) has an exam; there is no cumulative final exam.

Exam Format: short answer

GEO 2303W Geochemical Principles
3 credit(s); prereq concurrent enrollment Chem 1021 or instr consent; Meets CLE req of Writing Intensive;
Instructor: Edwards,Lawrence
Description: Student may contact the instructor or department for information.

GEO 3002 Climate Change and Human History
3 credit(s); Credit will not be granted if credit has been received for: GEO 5102; Meets CLE req of Environment Theme;
Instructor: Ito,Emi
Description: This course examines the temporal, geographical,
and environmental aspects of past climate changes, and by using specific examples, explores how past climate changes may have affected the course of human history. Through lecture and discussions, we will examine geological, geographical, sedimentological, paleontological, and archaeological evidence to construct a record of global climate change and to answer such questions as: How frequently have global and regional climate changes occurred in the past? How large were shifts in temperature and aridity associated with these past climate changes? How long can climate states or patterns last? What effect has human activity had in past climate changes? How have climate changes of the last 10,000 years affected the economic condition of early societies? How did past climate changes affect the balance of power among kingdoms and city-states? Examples from the Americas, Africa, Asia, Europe, and the Near East will be examined to illustrate how significant events in human history have been strongly influenced by changes in climate.

**Style:** 70% Lecture, 30% Discussion. some videos

**Grading:** 35% mid exam, 35% reports/papers, 15% quizzes, 15% in-class presentation.

**Exam Format:** short essays, definitions

**GEO 3006 Planets of the Solar System**

3 credit(s);

**Instructor:** Yuen,David A

**Description:** Student may contact the instructor or department for information.

**GEO 3093 Problems in Geology and Geophysics: Junior**

1-4 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;

**Instructor:** STAFF

**Description:** Students interested in working on a particular problem or issue in either geology or geophysics can contact the department office for referral to appropriate faculty members. Students will work on a one-to-one basis with a faculty member. Projects may include literature review, laboratory or field work, or computer modeling. Depending on the scope of the project students can earn from 1-4 credits for each project. This course may be taken more than once when different problems are pursued.

**Style:** varies with instructions

**Grading:** varies with instructions

**Exam Format:** varies with instructions

**GEO 3401 Geochronology and Earth History**

3 credit(s); prereq 2303;

**Instructor:** Runkel,Anthony C

**Description:** Geo 3401 is a course for Geology majors and studies time in relationship to the history of the earth. The course presents quantitative and relative age-dating techniques based on the fundamental principles of isotopic decay and organic evolution (fossils), paleomagnetism, etc. The class will synthesize much of the student's geologic background and apply it to determinations of geologic time to gain an appreciation of the strengths and weaknesses of currently available chronostratigraphic techniques. The course emphasizes how various dating techniques are used to solve fundamental geologic problems. This includes the use of chronostratigraphic techniques in exploration for precious metals and petroleum, and in hydrogeologic studies, including local examples from Minnesota. Particular emphasis towards the end of the course will be placed on integrating these concepts in an evaluation of the ongoing controversy surrounding the extinction of the dinosaurs at the end of the Cretaceous Period.

**Style:** 50% Lecture, 50% Laboratory.

**Grading:** 35% mid exam, 35% final exam, 30% laboratory evaluation.

**Exam Format:** Short answer, essay, multiple choice

**GEO 3402 Science and Politics of Global Warming**

3 credit(s); prereq CLA student, completed degree requirements for physical sciences with lab/mathematical thinking; Meets CLE req of Environment Theme;

**Instructor:** Broadbent,Jeffrey Praed

**Description:** Welcome to the Science and Politics of Global Warming! Today media often carry headlines warning the public of the dangers of human-induced global climate change. New signs of global warming, such as retreating mountain glaciers and shrinking Arctic Ocean ice cover, are reported. At the same time there are claims and accusations that global warming is just a hoax. On the socio-political front too, there are conflicting positions about what needs to be done if anything about global climate change. Even amongst those who accept that global warming is occurring, there is little consensus about how to mitigate the human impacts and at what cost. In this course, we will examine global warming from both the natural science and social science perspectives. The goal of the science portion, taught by Matsumoto, is to clarify what we know and how well we know about global warming: the physics of greenhouse effect (why Earth is habitable compared to Mars and Venus?), the global carbon cycle (what is the consequence of burning oil?), and future global climate forecasts (what awaits us). The goal of the politics portion of the course, taught by Broadbent, is to identify our options for lessening the risks posed by climate change, in particular by reducing our emissions of greenhouse-effect gasses, and to examine the social and cultural barriers against and pathways toward accomplishing such counter-measures.

**Style:** 85% Lecture, 5% Discussion, 5% Student Presentation, 5% Guest Speakers.

**GEO 3890 Field Workshop**

1 credit(s), max credits 2; prereq Geo or Geoph or GeoEng major or instr consent ;

**Instructor:** Fox,David L

**Description:** Student may contact the instructor or department for information.

**GEO 4010 Undergraduate Seminar: Current Topics in Geology and Geophysics**

1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr consent ;

**Instructor:** STAFF

**Description:** Seminar courses are offered to undergraduate students on varying topics taught by departmental faculty. Students interested in learning which seminars are offered during a semester should contact either the department office or individual faculty members. Credit for seminar courses vary from
Schedule.
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

GEO 4093 Problems in Geology and Geophysics: Senior 1-4 credits(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Students interested in working on a particular problem or issue in either geology or geophysics can contact the department office for referral to appropriate faculty members. Students will work on a one-to-one basis with a faculty member. Projects may include literature review, laboratory or field work, or computer modeling. Depending on the scope of the project students can earn from 1-4 credits for each project. This course may be taken more than once when different problems are pursued.

GEO 4094 Senior Thesis 2 credit(s), max credits 4; prereq Sr, Geo or GeoPhys major, instr consent;
Instructor: STAFF
Description: This course is intended for senior level majors to engage in independent research under faculty supervision. Students select problems according to individual interests and in consultation with faculty committee. Year long project results in a written thesis and oral defense.
Style: varies with instructions
Grading: varies with instructions
Exam Format: varies with instructions

GEO 4102W Vertebrate Paleontology: Evolutionary History and Fossil Records of Vertebrates A-F only, 3 credit(s); prereq 1001 or 1002 or Biol 1001 or Biol 1002 or Biol 1009 or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Fox,David L
Description: Student may contact the instructor or department for information.

GEO 4204 Geomagnetism and Paleomagnetism 3 credit(s); prereq 2201, Phys 1302, Math 1272 or instr consent;
Instructor: Moskowitz,Bruce Matthew
Description: Student may contact the instructor or department for information.

GEO 4401 Aqueous Environmental Geochemistry 3 credit(s); prereq Chem 3501 or instr consent;
Instructor: Seyfried Jr,William E
Description: Student may contact the instructor or department for information.

GEO 4602 Sedimentology and Stratigraphy 3 credit(s); prereq [3402, [IT upper div major in [geology or geophysics or geo-engineering or mining engineering] or CLA [jr or sr] major in geology]] or instr consent;
Instructor: Kleinseph,Karen L
Description: Student may contact the instructor or department for information.

GEO 4701 Geomorphology 3-4 credit(s), max credits 4, 1 repeat allowed; prereq 1001, Math 1031 or instr consent;
Instructor: Perg,Bruce Matthew
Description: Student may contact the instructor or department for information.

GEO 4702 General Hydrogeology 3 credit(s); prereq [CHEM 1022, MATH 1271, PHYS 1201, geo major core curriculum through 2402] or instr consent ;
Instructor: Alexander Jr,E Calvin
Description: Student may contact the instructor or department for information.

GEO 5012 Climate Change and Human History 3 credit(s); prereq 1001 or equiv or instr consent ; Credit will not be granted if credit has been received for: GEO 3002;
Instructor: Ito,Emi
Description: Student may contact the instructor or department for information.

GEO 5018 Principles of Environmental Geology 3 credit(s); prereq Geology majors: core curriculum through 4501 or instr consent; nonmajors: 1001 or instr consent;
Instructor: Pfennigkühler,Hans-Olaf
Description: The objective of the course is (1) to give an overview of basic principles of environmental geology from a general and global perspective, (2) to have students participate in the handling of a practical, theoretical, or local problem through direct participation and research. From the global point of view Environmental Geology is defined in the context of the fundamental question it addresses, survival of the human species. The common basis for discussion is the postulate that human ecosystems are part of ecosystems in general and therefore subject to the same constraints given by the physical and chemical environment. The specific topics use general systems theory and the ecological approach to deal with those aspects of the problem that are truly geologic. A discussion of the flow of energy and materials through biogeochemical cycles focuses on global issues of finite geologic resources, the finite carrying capacity or waste assimilation and processing capacity of the earth, and man's increasing role as a geologic agent. These geologic factors are incorporated into global simulation models to create different scenarios of the future and to spell out options to manage future impacts. Environmental geology is used to examine these world models from a geologic perspective and to realistically assess the risks and limits of the transition to acceptable permanent and sustainable solutions.
Style: 50% Lecture, 20% Discussion. class project (report)
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: essay

GEO 5353 Electron Microprobe Theory and Practice 3 credit(s); prereq [One yr chem, one yr physics] or instr consent ;
Instructor: Frahm,Ellery Edward
Description: Please visit the course webpage for additional information. This course aims to familiarize graduate students and advanced undergraduates with the physics behind and instrumentation of electron microprobe analysis and to train students to use the JEOL 8900 Electron Probe Microanalyzer. There are two components to this course: lectures and labs. All students attend all lectures and labs. This course is not mathematically based. Instead, the lectures and readings are intended to develop a conceptual and qualitative or semi-quantitative understanding of the principles and instrumentation of electron microprobe analysis. Concepts are emphasized so that, if and when one is interested in the mathematical details, one can have a firm foundation on which to build. There will be no weekly problem sets; however, all students are assigned 25 to 50 pages of reading each week, and there will be a quiz at the start of every lecture on the assigned readings. The prerequisites are one year of physics and/or chemistry or instructor consent. Coursework in geology is helpful but not required.
Style: 50% Lecture, 50% Laboratory.
Grading: 20% mid exam, 20% final exam, 10% special projects, 10% in-class participation.
Exam Format: Multiple choice, short answer, essay, diagrams; few mathematical problems.

GEO 5502 Advanced Structural Geology 3 credit(s); prereq 4501 or instr consent;
Instructor: Hudleston,Peter John
Description: This course deals with the analysis of deformation of rock and the mechanical interpretation of natural structures. Lectures are supplemented by readings from text books and the
GER 1001 Beginning German
Course: 5 credit(s); prereq 1001; Instructor: STAFF
Description: German 1001 is intended for beginners and introduces students to the four language skills areas: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Grenzverkehr and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.
Style: Mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 8% special projects, 33% quizzes, 28% class participation, 13% other evaluation. Reading/group work assignments and computer and audio lab.
Exam Format: written.

GER 1002 Beginning German
Course: 5 credit(s); prereq 1001; Instructor: STAFF
Description: German 1002 is intended for students who have completed German 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Grenzverkehr and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.
Style: Mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 8% special projects, 27% quizzes, 22% class participation, 21% other evaluation. Reading/group work assignments and computer/audio lab.
Exam Format: written.

GER 1003 Intermediate German
Course: 5 credit(s); prereq 1002 or Entrance Proficiency Test; Instructor: STAFF
Description: Students in this course will be working with the course-packet Sprunge and the accompanying listening exercises on Sprunge-Online, short literary texts, a feature film, and online cultural exercises. Topics covered in this course will include free-time activities and travel, living situations, the German educational system, career decisions, and media and technology. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research of cultural topics. Process-writing essays, presentations on cultural topics, and short interviews round out the course.
Style: varies with instructor
Grading: 70% final exam, 15% reports/papers, 6% special projects, 30% quizzes, 8% in-class presentation, 25% class participation, 6% other evaluation. Role-plays
Exam Format: written, oral interviews.

GER 1004 Intermediate German
Course: 5 credit(s); prereq 1003 or completion of Entrance Proficiency Test at 1004 level; Instructor: STAFF
Description: 1004 builds on the skills taught in 1003. Students use the course-packet Sprunge 1004 and listening exercises on Sprunge-Online, read short texts and a play, watch a feature film, and do online cultural exercises. Topics include Berlin, film, and issues of multiculturalism. German 1004 reviews German language structures and helps students expand their listening, courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 33% quizzes, 28% class participation, 13% other evaluation. Reading/group work assignments and computer and audio lab.
Exam Format: written.
GER 1022 Beginning German Review
5 credit(s); prereq Placement above 1001; Instructor: STAFF
Description: Intended for students with previous experience in German, primarily those who have studied German in high school or at community colleges, or who are transfer students. The course involves intensive review of all four language modalities (listening, reading, speaking, writing), with a proficiency emphasis to prepare for German 1003. By the end of the course students should be able to discuss familiar topics, such as every day activities, free-time occupations, or career choices, and have become familiar with some contemporary social issues in the German-speaking countries. There is a cultural reader for this course, Grenzverkehr. This course includes writing assignments that are process-oriented and require students to work together in editing groups. All class sessions involve extensive student interaction and require an average of 2 hours of outside preparation.
Style: student discussion and interaction
Grading: 10% final exam, 12% reports/papers, 4% special projects, 32% quizzes, 29% class participation, 13% other evaluation. reading/group assignments, 4% computer/audio lab
Exam Format: Written

GER 3011W Conversation and Composition
4 credit(s); prereq 1004; Meets CLE req of Writing Intensive; Instructor: STAFF
Description: This course is designed to refine students’ oral and written expression and aid in the development of critical analysis skills. Contemporary readings introduce important communicative modes of language (description, narrative, debate, report, text analysis), while a grammar review supports works on finer grammar points. Multi-media materials (video clips, feature films, computer resources) will complement the other instructional materials. Graded work includes active class participation, essay writing and revision, individual and group oral presentations and projects, and informal writing assignments of varying lengths.
Style: 10% Lecture, 10% Film/Video, 30% Discussion, 35% Small Group Activities, 15% Student Presentation.
Grading: 30% reports/papers, 25% quizzes, 10% journal, 25% in-class presentation, 10% class participation.

GER 3014 German Media
3 credit(s); prereq 3011; Instructor: Raham, Rebecca A
Description: In this course, we will work extensively with German-language media. Media in this context include newspapers, magazines, radio, television, and the Internet. We will not only talk about different forms of media and how they present information, entertainment, and advertising, but we will also look at how media are represented and discussed within German culture. The readings selected for the course focus on topics such as the representation of war and sports in media, the development of television in reunified Germany, and the future of radio. We will pursue questions about national identity and the role that media plays in its creation. We will also look at the way media represents and constitutes other categories such as gender, race, and sexuality. You have the opportunity to focus on topics of your own choice for the media research reports that are one component of the course. We will read articles in both English and German to give you background information about various aspects of German media. We will discuss these articles and related topics in German. The course gives you the opportunity to develop your skills reading, writing, speaking and listening to German.
Grading: 45% written homework, 35% in-class presentation, 20% other evaluation. 20% Referate: short presentations on current news or cultural topics

GER 3021 Business German
3 credit(s); prereq 3011 or equiv; Instructor: Ivanova-Lockney, Arsenia
Description: This course is aimed at students with advanced knowledge of German and will give them the opportunity to learn about German companies, industry sectors and their products. In addition to readings from the textbook, the students will summarize current articles from the German business press and from a German podcast. For their oral presentations, students will acquire knowledge regarding how to describe the size and activities of a company, how to read an organization chart and interpret graphics. Writing assignments will focus on business correspondence and will include detailed instruction on writing the most frequently used types of letters.
Style: 20% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Web Based. in class writing - 10%.
Grading: 20% special projects, 20% quizzes, 10% written homework, 10% attendance, 20% in-class presentation, 20% class participation.

GER 3104W Reading and Analysis of German Literature
4 credit(s); prereq 3011; Meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: STAFF
Description: Germany’s view of the US ranges from seeing them as liberators, an inspiration in pop-culture and intellectual life, a popular tourist destination or emigration goal to the rejection of US politics and the American way of life. Even though the US has been highly criticized in Germany, there still is a constant fascination with American culture, politics and lifestyle. This course will explore the changes that have occurred in Germany’s view of the US and look at current influences and opinions of US culture in Germany. Students will have a chance to ask guest speakers about their views, work with news clips, texts, films, and online resources. They will write response papers, have discussions and give a presentation about a research topic of their choice. They will also conduct interviews with Germans and Americans/ multicultural families who share their perspective of “deutsch-amerikanische Freundschaft”.

GER 3510 Topics in German Studies: Amis go home! Die Deutsch-Amerikanische Hassliebe
3 credit(s), max credits 9, 3 repeats allowed; prereq 3011; Instructor: Weiss, Friederike
Description: Germany’s view of the US ranges from seeing them as liberators, an inspiration in pop-culture and intellectual life, a popular tourist destination or emigration goal to the rejection of US politics and the American way of life. Even though the US has been highly criticized in Germany, there still is a constant fascination with American culture, politics and lifestyle. This course will explore the changes that have occurred in Germany’s view of the US and look at current influences and opinions of US culture in Germany. Students will have a chance to ask guest speakers about their views, work with news clips, texts, films, and online resources. They will write response papers, have discussions and give a presentation about a research topic of their choice. They will also conduct interviews with Germans and Americans/ multicultural families who share their perspective of “deutsch-amerikanische Freundschaft”.

GER 3512W German Civilization and Culture: 1700 to the Present
3 credit(s); Meets CLE req of Writing Intensive; Instructor: Morris, Leslie C
Description: The concepts that make up the title of this course?culture, civilization, German?are not neutral and descriptive categories. Instead, they are polemical terms that were used throughout German history to define?against other countries as well as against other groups within the country?what ?Germany? and ?German? should mean. This course provides an overview of the cultural, historical and social developments in the German-speaking countries from 1700 to the present, with a focus on literary history from the Enlightenment to the present. It will cover events and issues that are key to understanding the social, political, and cultural profile of present-day Germany and other central European countries. Topics to be discussed include: the Enlightenment in philosophy and literature; the rise of the bourgeoisie and its effect on literary culture; the Romantic revolution in literature and the arts; the formation of a national identity in the time spanning the upheavals of the Napoleonic period to Germany’s unification in 1871; the transnational linkages of phenomena such as...
industrialization, urbanization, and the rise of mass politics in the latter decades of the 19th century; the attraction and fear of modernity expressed in the aestheticism and cultural despair at the turn of the century, as well as in the radical cultural politics of the avant-garde; the shock of World War I and the experiment of the Weimar Republic; the rise of Fascism and the collapse of the Third Reich in World War II; and the complex cultural and political landscape of Germany and Austria in the postwar period and after the fall of the wall in 1989. Readings will be drawn from both primary and secondary texts. Lectures, discussions, and readings will be conducted in English.

Style: 30% Lecture, 60% Discussion, 5% Small Group Activities, 5% Student Presentation.

Grading: 20% mid exam, 60% reports/papers, 20% class participation.

Exam Format: Mid-term essay exam

GER 3593 Directed Studies: German-Speaking Countries

4 credit(s), max credits 12, 3 repeats allowed; prereq 3011, dept consent;

Instructor: STAFF

Description: Preparation for research abroad during semester before departure. Written and oral reports upon return.

GER 3610 German Literature in Translation: European Music & Arts c. 1900

3 credit(s), max credits 9, 3 repeats allowed; prereq No knowledge of German required; cr toward major or minor requires reading in German;

Instructor: Painter PhD, Karen

Description: The birth of modernism and crossovers will be studied in the context of Central European cultural history, with a focus on nationalism and anti-Semitism. We begin with the composer (Wagner) and philosopher (Nietzsche) who most influenced art, culture, and thought around 1900, then study Debussy, Mahler, Richard Strauss, and Schoenberg alongside related literary texts.

GER 3631 Jewish Writers and Rebels in German, Austrian, and American Culture

3 credit(s); prereq No knowledge of German required; cr toward major or minor requires reading in German; Credit will not be granted if credit has been received for: JWST 3631; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;

Instructor: Abramov, Tamar

Description: This course will investigate the fruitful yet traumatic encounter between Europe and America in the works of German emigrés to the United States in the twenties, thirties and forties. In reading these works we will develop an elaborate thinking of the relationship of Europe to America, the old to the new. We will focus on the way these works allegorize a historical encounter between European/metaphysical thinking (and its break) and the event of America, both redemptive and disastrous to its European counterpart. We will also consider the way this encounter is embodied in these thinkers’ life journeys and their thought in and around the trauma of exile. Readings and screenings include: Arendt, Adorno, Brecht, Lüthisch, Wilder, Mann, Strauss, Jonas and others. A short midterm paper (5 pgs) and a final longer one (10-12 pgs).

GER 3704 German Dialects

3 credit(s); prereq 1004;

Instructor: Hopfman, Ari E

Description: Style: 100% Lecture.

Grading: 20% mid exam, 20% final exam, 10% reports/papers, 15% quizzes, 15% in-class presentation, 20% class participation.

Exam Format: Multiple choice, short answer, essay

GER 3993 Directed Studies

1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr consent, dept consent, college consent;

Instructor: STAFF

Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

GER 4001 Beginning German

2 credit(s); prereq Grad student;

Instructor: STAFF

Description: German 1001 is intended for beginners and introduces students to the four language skills areas: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Oktoberfest, a mystery which takes place in Munich, and grammar reference materials. Students will also complete a variety of writing activities, including essays. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: mostly discussion and student involvement and interaction.

Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer and audio lab.

Exam Format: written

GER 4002 Beginning German

2 credit(s); prereq Grad student;

Instructor: STAFF

Description: German 1002 is intended for students who have completed German 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Grenzverkehr and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.

Style: Mostly discussion and student involvement and interaction.

Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer/audio lab.

Exam Format: written

GER 4003 Intermediate German

2 credit(s); prereq Grad student;

Instructor: STAFF

Description: Students in this course will be working with the course-packet Sprunge and the accompanying listening exercises on Sprunge Online, short literary texts, a feature film, and online cultural exercises. Topics covered in this course will include free-time activities and travel, living situations, the German educational system, career decisions, and media and technology. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their
use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research of cultural topics. Process-writing essays, presentations on cultural topics, and short interviews round out the course.

GER 4004 Intermediate German
2 credit(s); prereq Grad student;
Instructor: STAFF
Description: 1004 builds on the skills taught in 1003. Students use the course-packet Sprunge 1004 and listening exercises on Sprunge Online, read short texts, and a play, watch a feature film, and do online cultural exercises. Topics include Berlin, film, and issues of multiculturalism. German 1004 reviews German language structures and helps students expand their listening, speaking, reading and writing skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research. Process-writing essays, presentations, and interviews round out the course. Course materials: Sprunke 1004, Durrenmat's Die Physiker. (Oxford UP edition).

GER 5016 Advanced Translation: Theory and Practice
3 credit(s); prereq 5011 or instr consent;
Instructor: Firchow, Evelyn S
Description: This course will continue the grammar review begun in German 5011, using Hammer/Durrell. During this semester the emphasis will be on translating selected texts from German to English and English to German. Every student will have a choice of a German text to translate in lieu of a final examination. An oral class report will also be given on this text and its translation.

GER 5610 German Literature in Translation
3 credit(s), max credits 9, 3 repeats allowed; prereq No knowledge of German required; cr toward major or minor requires reading in German;
Instructor: Abramov, Tamar
Description: In this class we will be reading closely in Freud, from the Interpretation of Dreams (1900) all the way to Moses and Monotheism (1939). We will examine the importance of psychoanalysis as an intellectual and philosophical endeavor as well as a clinical one. We will be engaged in an interpretation of a the text as well as the cultural phenomenon and the new vision of a world it gave rise to. No prerequisites. Two short papers (3-5 pages) and a final longer paper (10 pages undergrads, 12-15 grad students). Reading depends on the assignment for the week, and can be anywhere between 40 to 200 pages.

GER 5712 History of the German Language II
3 credit(s); prereq 5711;
Instructor: Firchow, Evelyn S
Description: Student may contact the instructor or department for information.

GER 5993 Directed Studies
1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

GER 8010 Current Debates in Literary and Cultural Theory
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Schulte-Sasse, Jochen
Description: Student may contact the instructor or department for information.

GER 8020 Problems in Literary and Cultural History
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Hove, Poul
Description: Student may contact the instructor or department for information.

GER 8742 Gothic and Methods of Comparative Reconstruction II
3 credit(s); prereq 8741;
Instructor: Liberman, Anatoly
Description: Student may contact the instructor or department for information.

Gerontology

D-351 Mayo (Box 197 UMHC)

GERO 5100 Topics in Gerontology: Evaluating Housing for Older People: Post-Occupancy
3 credit(s), max credits 10, 10 repeats allowed;
Instructor: Cutler, Lois Jean
Description: Student may contact the instructor or department for information.

GERO 5110 Biology of Aging
3 credit(s);
Instructor: Snow MD, PhD, LeAnn M
Description: Student may contact the instructor or department for information.

Global Studies

214 Social Science

GLOS 1200 Global Studies Practicum: India's West Coast: 5 Centuries of Globalization
A-F only, 3 credit(s), max credits 6;
Instructor: Saldanha, Arun
Description: This course strikes a balance between learning about the history of globalization on India’s west coast and coming to terms with the ambivalences of modern tourism. Trade across the Arabian Sea was long concentrated in the cosmopolitan port city of Cochin (Kochi) with its unique Hindu, Jewish, Chinese, Portuguese, Dutch, and British influences. We take the train down Kerala’s coast to the bustling commercial city Calicut (now called Kozhikode), where the Portuguese captain Vasco da Gama landed in 1498. From Calicut we fly to Goa, the former capital of the Portuguese empire of the Indian Ocean and one of the most important places in the history of colonialism. Goa now is India’s prime spot for beach tourism. Back in the global city of Mumbai (Bombay), we will observe frantic traffic, late imperial British architecture, and the social inequalities underpinning India’s globalization.

GLOS 1909W Topics; Freshman Seminar: Magic in the Contemporary World
A-F only, 3 credit(s); prereq Fr; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: McLean, Stuart J
Description: What do we understand by "magic" and what is its place in today’s world? Beliefs and practices relating to magic, witchcraft, ghosts and the supernatural have sometimes been dismissed as "backward" and "irrational" and therefore likely to disappear as societies throughout the world increasingly identify themselves as "modern", yet such beliefs and practices continue to flourish on a global scale in the world of the early twenty-first century. This seminar investigates magic as a contemporary phenomenon interwoven in complex ways with political events, socioeconomic transformations and new technological developments. We begin by reviewing some classic anthropological studies of magic, before considering a number of case studies documenting the role of magic and associated phenomena in contemporary life. Students will be encouraged to think creatively and critically about the world we live in, about the
terms in which historical change is understood and, not least, about what it means to define ourselves as "modern".

GLOS 3145 Theoretical Approaches to Global Studies
A-F only, 4 credit(s); prereq 6 credits in the social sciences including at least one of the following: Geog 1301; Hist 1012/1018; GloS 1015W or PolSci 1025 or instr consent ; Credit will not be granted if credit has been received for: GLOS 3145H; Instructor: Gidwani, Vinay Krishin
Description: In what sense has our world suddenly become "global"? What was our world before it became "global"? What theories of the world do we explicitly and/or implicitly invoke when we deploy the words "global" and "globalization"? What are the theoretical and conceptual presuppositions that make it possible for us to think in these terms? In this class, we interrogate the words "global" and "globalization" as the latest organizing elements of the varied, still-unfolding processes of modernity. For our purposes, "global studies" is ultimately about understanding the ways in which the living and non-living elements of the world are mapped, partitioned, measured, labeled, categorized, territorialized, and conceptualized at various moments in time. This is a course in learning how to think theoretically, hence the title: "Theoretical Approaches to Global Studies." Why should you feel compelled to take the course? Because, at the end of the day, the course will help you better understand our contemporary human condition, and how you might work to improve it. What sorts of global ethics should we aspire towards? How should we exercise citizenship in a globalizing world? GloS 3101 is required for Global Studies majors and open to all other interested undergraduates who have fulfilled course prerequisites. The course format is lectures complemented by weekly recitation sections. The course is likely to be web-enhanced (URL presently not available).
Style: 67% Lecture, 33% Discussion.
Grading: 30% mid exam, 30% final exam, 40% reports/papers. In-class quizzes may be added to syllabus
Exam Format: Multiple choice and/or keyword definitions, and short essays

GLOS 3145H Theoretical Approaches to Global Studies
A-F only, 4 credit(s); prereq 6 credits in the social sciences including at least one of the following: Geog 1301; Hist 1012/1018; GloS 1015W or PolSci 1025; or instr consent ; Credit will not be granted if credit has been received for: GLOS 3145; Instructor: Gidwani, Vinay Krishin
Description: In what sense has our world suddenly become "global"? What was our world before it became "global"? What theories of the world do we explicitly and/or implicitly invoke when we deploy the words "global" and "globalization"? What are the theoretical and conceptual presuppositions that make it possible for us to think in these terms? In this class, we interrogate the words "global" and "globalization" as the latest organizing elements of the varied, still-unfolding processes of modernity. For our purposes, "global studies" is ultimately about understanding the ways in which the living and non-living elements of the world are mapped, partitioned, measured, labeled, categorized, territorialized, and conceptualized at various moments in time. This is a course in learning how to think theoretically, hence the title: "Theoretical Approaches to Global Studies." Why should you feel compelled to take the course? Because, at the end of the day, the course will help you better understand our contemporary human condition, and how you might work to improve it. What sorts of global ethics should we aspire towards? How should we exercise citizenship in a globalizing world? GloS 3101 is required for Global Studies majors and open to all other interested undergraduates who have fulfilled course prerequisites. The course format is lectures complemented by weekly recitation sections. The course is likely to be web-enhanced (URL presently not available).
Style: 67% Lecture, 33% Discussion.
Grading: 30% mid exam, 30% final exam, 40% reports/papers. In-class quizzes may be added to syllabus
Exam Format: Multiple choice and/or keyword definitions, and short essays

GLOS 3303 Environment and Development in the Third World
A-F only, 3 credit(s); prereq Soph or jr or sr; Credit will not be granted if credit has been received for: GEG 3379; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; Instructor: Samatar, Abdi Ismail
Description: This course has three objectives: (a) to advance students' knowledge of the dynamics of capitalism as a global system, its insatiable appetite for resources, and effect on human development; (b) to give students analytical tools to understand the relationship between this expansive system, its enormous productive and destructive capacity (social and ecological); (c) to enable students to gain substantive knowledge about how this system impacts on Africa, Asia, and Latin America, and the social and ecological struggles in those regions. Topic covered include: Dynamics and patterns of economic development; Uneven global consumption of natural resources; Poverty and over-consumption as the twin sources of environmental degradation; Population and development. Urban environment in the South; Gender-class and environmental struggles; waste and the global commons. Teaching methods: There are lectures and one discussion session per week. Several students will lead each weekly discussion of current environment/development topic. We watch and critique several documentaries. Authors include: Bina Agarwai, Barry Commoner, Michael Watts, P. Blaikie; Dharam Ghaï; David Harvey. Intended audience: Social and natural science undergraduates
Style: 65% Lecture, 35% Discussion.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% class participation.

GLOS 3305 Life for Sale: Global Debates on Environment, Science, and Society
A-F only, 3 credit(s); prereq At least soph; Instructor: Craddock, Susan L
Description: This course examines some of the most hotly debated topics in biomedicine, the sciences, and the environment today. We will look at issues such as the patenting of plant, animal, and human genes and cells, vaccine trials, genetically modified organisms, environmental waste, new reproductive technologies, commerce in body parts, genetic research, global warming, and more from the perspective of what makes these issues controversial, who benefits and who does not, who determines the direction scientific and medical research takes, how these topics are presented to society, and what is their larger impact on social thinking and practices.

GLOS 3402 Human Rights Internship
A-F only, 3 credit(s); prereq 3401, instr consent; Instructor: Frey, Barbara A
Description: Student may contact the instructor or department for information.

GLOS 3415 Global Institutions of Power: World Bank, International Monetary Fund, and World Trade Organization
A-F only, 3 credit(s); Instructor: Goldman, Michael R
Description: This course introduces three of the world's most powerful global institutions -- the World Bank, International Monetary Fund, and World Trade Organization. Three dimensions will be emphasized: we will look behind their closed doors to understand their daily practices; we will learn about the political, economic, and cultural terrain in which they operate; and we will observe them in key sites in the global South and North. General course themes include the business and expertise of development, poverty and wealth generation, the ideas of free market and trade, the rise of a transnational professional class and networks, and transnational social activism and networks.
Style: 50% Lecture. 30% Discussion. student debates and in-class presentations
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.

GLOS 3500 Honors Course: Supervised Research Paper
4 credit(s); Meets CLE req of Writing Intensive; Instructor: Skaria, Ajay
Description: This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

GLOS 3550V Honors Course: Supervised Research Paper
4 credit(s); Meets CLE req of Writing Intensive;
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

GLOS 3552H Honors Seminar: Making of the Modern World
A-F only, 3 credit(s); prereq ICCG, instr consent; Meets CLE req of International Perspect Theme;
Instructor: Winkler, Anne
Description: Student may contact the instructor or department for information.

GLOS 3553H The Global and the Local Part II: Research and Writing
A-F only, 3 credit(s); prereq ICCG, instr consent; Meets CLE req of International Perspect Theme;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

GLOS 3602 Other Worlds: Globalization and Culture
A-F only, 3 credit(s); prereq [3101, 3144] or instr consent;
Instructor: Craddock, Susan L
Description: Using medicine as an optic, this class explores how "other worlds" get created and maintained. What is meant by the "other" and the worlds of which "others" are a part? What mechanisms are used to delineate "normal" versus different and to what ends are these conceptualizations used? How do definitions of "other" play out globally as well as domestically? There are many means - legal, discursive, social, political, economic - to create "other worlds," but in this class we focus on the ways in which, medicine, as a set of practices embedded in cultural systems and power relations, has played a pivotal part in the creation, maintenance, and visibility of otherness historically and currently. Medicine also serves as a locus for highlighting the clash of "other worlds," as well as playing a role in both creating and addressing those diseases globally that speak of gross inequities in resources. In order to explore all of these themes of medicine, disease, and the production of "other worlds," we will have modules during the course of the semester. We will begin by looking at colonial medicine - the theories colonial physicians devised concerning colonized bodies and differential susceptibilities to disease, and the negotiated deployment of colonial medicine in various regions. We will also look at the nexus of medicine and radicalizations in the United States, as well as current examples of medical practices globally that raise ethical questions concerning medicine's role in public health. Our next module will look at disease outcomes for global inequalities and the role of medicine in both perpetuation inequalities through neglect or the pursuit of more profitable ventures, and the potential and promise of medicine to ameliorate global disease and its attendant suffering. Our last module will look at medicine and disease as a point of conflict between "other world," with case studies within the U.S. and internationally. At its foundation, this class encourages a critical awareness of the myriad configurations of otherness at the individual or place level, including cultural marginalization, economic inequity, gender, sexual, class, ethnic-national-orientation, disease versus healthy. It also explores the means by which otherness is produced, the dynamic nature of these productions, and the exigencies within which definitions of otherness change, regroup, or dissolve at various points in time and place. It also seeks to raise the question of why "other world" have been, and continue to be, produced. What function does otherness serve in the world, in society, and in capitalism? Style: 20% Lecture, 80% Discussion.
Grading: 25% mid exam, 25% final exam. 10% Paper One, 10% Paper Two, 15% Response paragraphs (6)

GLOS 3643 Islam and the West
3 credit(s); Credit will not be granted if credit has been received for: CAS 3533;
Instructor: Bashiri, Iraj
Description: Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

GLOS 3701W Population in an Interacting World
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Matejskova, Tatiana
Description: Student may contact the instructor or department for information.

GLOS 3900 Topics in Global Studies: Living in the Global
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Wolfe, Thomas C.
Description: This course explores our contemporary condition of global connectedness. This course is organized topically, by posting various terrains of interconnection, including tourism, music, the world wide web, and global mass culture. While these themes are quite varied, our overall interests remain consistent: throughout the course we will want to ask, when, where, and how do we constitute global connections in our daily life? By looking closely and deeply at spheres of everyday life that are essentially about connecting, linking, joining, and intersecting, we will be in a better position to understand how we live in the global.
Style: 55% Lecture, 15% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 30% reports/papers, 30% special projects, 20% journal, 20% reflection paper.

GLOS 3900 Topics in Global Studies: Magic and Modernity
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Craddock, Susan L
Description: This course seeks to examine how, for example, the world of the modern metropolis gives visibility, voice, and shape to a complex and dynamic array of spirits, powers, and energies. The course looks at the ways in which the ancient and modern world met in the court of the king, the bed of the queen and the memory of the people, as well as through the streets and squares of the city. Students will develop an understanding of the anthropological concept of "the spirit world" by examining a variety of cases, from the Hinduism of India to the city of Chicago, from the witches of Salem to the Vodun of Haiti, from the bookstore spirits of the United States and Europe to the magical systems of Africa and the Americas. Style: 40% Lecture, 60% Discussion.
Grading: 37% Journal, 37% Mid Exam, 26% Final Exam.

GLOS 3900 Topics in Global Studies: India's West Coast: 5 Centuries of Globalization
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Saldanha, Arun
Description: This course strikes a balance between learning about the history of globalization on India's west coast and coming to terms with the ambivalences of modern tourism. Trade across the Arabian Sea was long concentrated in the cosmopolitan port city of Cochin (Kochi) with its unique Hindu, Jewish, Chinese, Portuguese, Dutch, and British influences. We take the train down Kerala's coast to the bustling commercial city Calicut (now called Kozhikode), where the Portuguese captain Vasco da Gama landed in 1498. From Calicut we fly to Goa, the former capital of the Portuguese empire of the Indian Ocean and one of the most important places in the history of colonialism. Goa now is India's prime spot for beach tourism. Back in the global city of Mumbai (Bombay), we will observe frantic traffic, late imperial British architecture, and the social inequalities underpinning India's globalization.

GLOS 3900 Topics in Global Studies: Black Paris: The African Diaspora & Paris, France
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Keaton, Trica Danielle
GLOS 3900 Topics in Global Studies: Gender & the Family in the Islamic World
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Abdi,Cawo
Description: This course explores the experiences of Muslim women and Muslim families from a historical and comparative perspective. Expanding the discussion on Muslim women's lives and experiences beyond the Middle East by also centralizing those outside of this geographical area, is paramount to highlight the complex and diverse everyday experiences of women around the world. This wider lens exposes the limitations intrinsic in the stereotypical Western representation of Muslims in general and Muslim women in particular. We will examine the intricate web of gender and family power relations, and how these are contested and negotiated in these societies. Some of the themes the course explores include the debates on Muslim women and colonial representations, sexual politics, family, education and health, women and paid work, gender and human rights, and Islamic feminisms debates.
Style: 40% Lecture, 20% Film/Video, 20% Discussion, 15% Small Group Activities, 5% Field Trips.

GLOS 3920 Topics in European Studies: La nouvelle vague et le cinema du Senegal
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Dima,Vlad
Description: This course looks at the seminal cinemas of the French New Wave and Senegal, and will provide you with the basic tools that will allow you to attempt to answer some of these questions. We will look at a number of films that have shaped the field of contemporary cinema and we will try to map out their historical trajectory and to reveal the aesthetic and cultural tensions produced by and through their complex inter-relationships. The artistic proximity of the two cinemas will allow for the contextualization of some thematic concerns as: images of the city, native techniques, and the female subject. At the same time, we will acquire and learn to apply basic technical terminology used in film studies (editing, narrative, point-of-view or sound).

GLOS 3930 Topics in Latin American Studies: La transmision de la palabra
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: O'Connell,Joanna
Description: "Emergent digital practices in the Spanish and Portuguese-speaking world: changing historical contexts, contemporary explorations? OR "La transmision de la palabra": de las escrituras indigenas al Internet en America Latina" Course Description: In this course, students will link new developments in interactive Computer-mediated communication (CMC) practices with the history of "literacy and signification technologies" (precolonial and colonial indigenous writing, European alphabetic literacy, colonialism and nation-building periods, and contemporary mass media) in a broad history of globalization in the modern world. In the first half of the class, students will learn how to historicize contemporary CMC, while the second half will provide a laboratory for the study of emerging digital practices in the Spanish and Portuguese-speaking world (Europe, the Americas, Africa, the U.S). The class will be conducted in Spanish, and students will speak, read and write in Spanish in the class, including in their CMC learning environments.
Instructor: O'Connell,Joanne
Style: 20% Lecture, 10% Film/Video, 20% Discussion, 20%
GLOS 3930 Topics in Latin American Studies: Global Spanish Imperialism in the 16th-century
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Marrero-Fente,Raul A
Description: TITLE: Global Spanish Imperialism in the 16th-century. Through an interdisciplinary approach, this course aims to provide a new interpretation of Spanish imperialism during the 16th-century. The course will examine the legacies of imperialist discourse as producer of the epistemic colonial difference. Furthermore, this course not only identifies the global nature of Spanish imperialism, but also analyses the indigenous accounts of resistance to the conquest and colonization. By focusing on the cultural production and practices of Spanish imperialism in Africa, the Americas, and Asia, the course argues that Colonial Latin American cannot be understood in isolation from other geographical regions, and from the transatlantic and global exchange from which it emerged. In other words, the cultural, economic, legal, political, and social interaction that occurred between the colonial territories was crucial in shaping the Spanish Empire in the early modern world. The course provides training in an analytical thinking and cultural critique of imperialism and colonialism, bringing a global perspective to our curriculum. The course will focus on critical readings and discussion of cultural artifacts, maps, texts and documents of Africa, Asia, Latin America, and Spain. Studies will include material pertaining to the aural and visual production of the period, including European accounts of the conquest, and indigenous accounts of resistance to the conquest. Primary reading materials are in Spanish and critical readings are in English and Spanish. All required readings are available as E-Book with the specific link.

GLOS 3930 Topics in Latin American Studies: Latin American Cultural Discourse
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Marrero-Fente,Raul A
Description: An interdisciplinary approach to the study of the junctures of international law, human rights and the international justice system in the Americas, Lusophone Africa, Portugal, and Spain. The course will examine central issues in connection with international law and human rights through the study of the legal systems and political institutions in the Global Hispanic and Lusophone World. The course will involve a review of substantive law, as well as the study of actual cases in selected countries of the region. The class will introduce students to the legal systems of the nations and regions through the study of academic and specialized discourse pertaining to the humanities and the social sciences. Topics will be devoted to the human rights movement, the international law of human rights and the international justice system, specifically focused on selected human rights cases. The violation of human rights is a complex issue, which demands an interdisciplinary approach in order to achieve a better holistic understanding of the social conflicts in the Global Hispanic and Lusophone World. As thus, the course will examine the role of human rights organizations and locally based groups and their connections with international institutions, governments and non-governmental organizations. The course will also provide training in the history and substance of human rights, the international justice system and the international human rights law, bringing a global perspective to our curriculum. The course will focus on critical readings and discussion of international law, constitutional law and human rights in the Global Hispanic and Lusophone World. The interdisciplinary approach of the course is based on approaching these issues from an historical, legal, philosophical and political perspective. All the work for the course, with the exception of certain supplementary readings, will be in Spanish.

GLOS 3951 Culture and Society of India
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3023; Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;
Instructor: Raheja,Gloria Goodwin
Description: Student may contact the instructor or department for information.

GLOS 3981W Major Project Seminar
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Skaria,Ajay
Description: Student may contact the instructor or department for information.

GLOS 3981W Major Project Seminar
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: McLean,Stuart J
Description: Student may contact the instructor or department for information.

GLOS 3993 Directed Study
1-5 credit(s), max credits 12, 12 repeats allowed; prereq instr consent , dept consent , college consent ;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

GLOS 5900 Topics in Global Studies: Teaching Global Cities as Sites of History
3 credit(s), max credits 12, 3 repeats allowed; prereq Jr or sr or grad student;
Instructor: Maynes,Mary Jo
Description: This course has several aims. First, using case studies, it will develop an interdisciplinary approach to understanding cities in a global-historical framework. Cities will be viewed as particular kinds of sites in global networks and also as sites where historical processes have left distinctive traces. We will also examine conflicts over urban space in particular, over urban spaces that record, commemorate, or layer over historical memory and residues of the past. Second, the course will offer an opportunity for students ? singly or in project groups ? to develop a syllabus for a site-based course designed to teach on a city as a site of history. Since learning abroad undergraduate classes are increasingly common at colleges and universities, the syllabus writing will provide an opportunity for students in the seminar to explore various approaches to the pedagogy of international and site-based learning. The case studies on which we will focus are: Berlin, Johannesburg, Shanghai, London, New York, and Mexico City. Throughout the semester, invited speakers will also join us to discuss the intellectual as well as the more practical or logistical issues associated with teaching global cities as sites of history.
Style: 10% Lecture, 50% Discussion, 10% Small Group Style:
Grading: 30% reports/papers, 30% special projects, 10% in-class presentation, 30% class participation.

GLOS 5900 Topics in Global Studies: Magic and Modernity
3 credit(s), max credits 12, 3 repeats allowed; prereq Jr or sr or grad student;
Instructor: McLean,Stuart J
Description: Student may contact the instructor or department for information.
GRAD 5102 Preparation for University Teaching for Nonnative English Speakers
S-N only, 2 credit(s); prereq [SPEAK score of 45 or successful completion of Foundations in English], [current or anticipated] TA assignment; Instructor: Meyers, Colleen Marie
Description:

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers
S-N only, 2 credit(s); prereq [SPEAK score of 50 or successful completion of 5102], [current or anticipated] TA assignment; Instructor: Beers, Barbara Lee
Description:

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers
S-N only, 2 credit(s); prereq [SPEAK score of 50 or successful completion of 5102], [current or anticipated] TA assignment; Instructor: Rosen, Caroline
Description:

GRAD 5101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: GONZALEZ PhD, Anita Marie
Description: GRAD 5101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Lubet, Alex J
Description: Student may contact the instructor or department for information.

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Ching, Paul
Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRK 1002 Beginning Classical Greek II
5 credit(s); prereq Grade of at least [C- or S] in 1001 or instr consent;
Instructor: STAFF
Description: Poetry, history, religion, medicine, philosophy,
drama, political science, biology, literary criticism, astronomy, rhetoric, mythology, geography... Whether you want to read Homer or Hippocrates, Aristotle or Aristophanes; Paul or Plato, Greek 1001-1002 is the place to start. In this class you will learn the elements of classical Attic Greek, the dialect spoken and written in Athens during the fifth and fourth centuries BC: a language of tragedy, comedy, oratory, history, and philosophy. With a knowledge of the basic grammar and vocabulary of Attic, you can later go on to read the epics of Homer, the letters of Paul, the comedies of Aristophanes, or whatever you'd like from texts spanning 1200 years of history. Prerequisite: C- or better (or S) in GRK 1001, or instructor consent.

GRK 3004 Intermediate Greek Poetry: Homer
4 credit(s); prereq [Grade of at least [C- or S] in [3003, 3113]] or dept consent credit will not be granted if credit already received for: Grk 3114, Grk 3300;
Instructor: Gustafson,Mark Timothy
Description: Student may contact the instructor or department for information.

GRK 5004 Intermediate Greek Poetry: Graduate Student Enrollment
3 credit(s); prereq [5003 or equiv], grad student;
Instructor: Gustafson,Mark Timothy
Description: Student may contact the instructor or department for information.

GRK 5200 Biblical Greek
3 credit(s), max credits 6; prereq Grade of at least [C- or S] in [3004 or 5004] or instr consent;
Instructor: Roetzel,Calvin J
Description: A close reading of biblical Greek, attending to grammatical constructions, textual variants and emendations. The reinterpretation of the Septuagint in New Testament texts, and the meaning of the text in context.

GRK 5800 Sight Reading for Graduate Students
S-N only, 1 credit(s), max credits 6, 6 repeats allowed; prereq Enrollment in a grad program in Department of Classical/Near Eastern Studies;
Instructor: Cole,Spencer E
Description: Student may contact the instructor or department for information.

GRK 8910 Seminar: Greek Historiography
3 credit(s), max credits 30, 10 repeats allowed;
Instructor: Bolmarich,Sarah M
Description: Graduate seminar in the Greek historians. We will cover the major authors and questions of the genre. Authors covered will include Herodotus, Thucydides, Xenophon, and Polybius, as well as the major fragmentary authors. Questions and themes covered with include use of sources, styles of analysis, literary styles, and veracity.
Style: 100% Discussion.
Grading: 20% mid exam, 25% final exam, 25% reports/papers, 10% in-class presentation, 20% class participation.

Health Informatics
777 Mayo (Mayo Mail Code 511)

HINF 5431 Health Informatics II
A-F only, 4 credit(s);
Instructor: Finkelstein,Stanley M
Description: Student may contact the instructor or department for information.

HINF 5436 Seminar
S-N only, 1 credit(s);
Instructor: Connelly,Donald P
Description: Student may contact the instructor or department for information.

HINF 5499 Capstone Project for the Masters of Health Informatics
A-F only, 3 credit(s); prereq [[5430, 5431] or instr consent], MHI student;
Instructor: Speedie,Stuart M
Description: Student may contact the instructor or department for information.

HINF 8405 Advanced Topics in Health Informatics I
3 credit(s); prereq instr consent;
Instructor: Speedie,Stuart M
Description: Student may contact the instructor or department for information.

Health Systems Management
20 Classroom Office Building

HSM 4501 Writing for the Health Professions
A-F only, 3 credit(s); prereq 45 cr;
Instructor: Bahar,Keri L
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

HSM 4541 Health Care Finance
A-F only, 3 credit(s);
Instructor: Riley,William J
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

HSM 4561 Health Care Administration and Management
A-F only, 3 credit(s); prereq 45 cr;
Instructor: Henry,William Floyd
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

HSM 4581 Teaching in the Health Care Setting
A-F only, 3 credit(s); prereq 45 cr;
Instructor: Bahar,Keri L
Description: For details on this course, go to http://idlwebdb.cce.umn.edu/courses.asp and search for online format.

Hebrew
245 Nicholson Hall

HEBR 1002 Beginning Hebrew II
5 credit(s); prereq Grade of at least [C- or S] in [1001 or 4001] or instr consent; Credit will not be granted if credit has been received for: HEBR 4002;
Instructor: Schneller,Renana Segal
Description: Hebrew 1002 is intended for students who have completed Hebrew 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening and reading. First year language courses involve extensive student interaction, partner activities, and group work. The text of the course, Hebrew from Scratch. The book is accompanied by CD's that are designed to be studied outside class. Grammar is covered in the homework assignments and reinforced in class with a variety of paired and small group activities. Hebrew is spoken almost exclusively in class. Class attendance is critical. The course prepares students for the CLA language requirements.
Style: 33% Lecture, 33% Discussion.
Grading: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation.
Exam Format: multiple choice, fill in the blank and a small essay
HEBR 3012 Intermediate Hebrew II
5 credit(s); prereq Grade of at least [C- or S] in 3101 or instr consent;
Instructor: Schneller, Renana Segal
Description: Students in this course will be using the textbook “Hebrew From Scratch” part II by Shlomit Chayat, Sara Israeli, and Hilla Kobliner. The program has a communicative and functional orientation. Current events will be discussed in Hebrew. Regular use of grammar and vocabulary encourages students to become more fluent in their use of Hebrew and to apply it creatively in new contexts. The course prepares students for the CLA language requirements.
Style: 33% Lecture, 33% Discussion. Recitation.
Grading: 20% mid exam, 15% final exam, 25% reports/papers, 30% quizzes, 10% class participation.

HEBR 3102 Intermediate Biblical Hebrew II
4 credit(s); prereq Grade of at least [C- or S] in 3101 or instr consent;
Instructor: Jassen, Alex
Description: We will continue to work through Biblical Hebrew texts and gain a stronger understanding of Hebrew grammar, syntax, and vocabulary. This semester’s reading will all be drawn from the book of Deuteronomy. We will gain an appreciation for reading a text as a whole. Students will gain further experience working with dictionaries, grammars, and commentaries.

HEBR 3951W Major Project
4 credit(s); prereq [Hebr major, three 3xxx Hebrew courses], instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

HEBR 3980 Directed Instruction
1-4 credit(s), max credits 4, 1 repeat allowed; prereq college consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

HEBR 4002 Beginning Hebrew II
3 credit(s); prereq Grade of at least [C- or S] in [1001 or 4001] or instr consent; Credit will not be granted if credit has been received for: HEBR 1002;
Instructor: Schneller, Renana Segal
Description: Hebrew 4002 is intended for students who have completed Hebrew 4001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening and reading. First year language courses involve extensive student interaction, partner activities, and group work. The text of the course, Hebrew from Scratch. The book is accompanied by CD’s that are designed to be studied outside class. Grammar is covered in the homework assignments and reinforced in class with a variety of paired and small group activities. Hebrew is spoken almost exclusively in class. Class attendance is critical, the course prepares students for the CLA language requirements.
Style: 33% Lecture, 33% Discussion.
Grading: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation.
Exam Format: multiple choice, fill in the blank and a small essay

HEBR 4107 Intermediate Biblical Hebrew II
3 credit(s); prereq Grade of at least [C- or S] in 3101 or instr consent;
Instructor: Jassen, Alex
Description: We will continue to work through Biblical Hebrew texts and gain a stronger understanding of Hebrew grammar, syntax, and vocabulary. This semester’s reading will all be drawn from the book of Deuteronomy. We will gain an appreciation for reading a text as a whole. Students will gain further experience working with dictionaries, grammars, and commentaries.

Hindi 453 Folwell Hall

HNDI 1102 Beginning Hindi
5 credit(s); prereq 1101; Credit will not be granted if credit has been received for: HNDI 4002;
Instructor: Prasad, R
Description: This is stage 2 in the program sequence. Students are presumed to have completed HNDI 1101 or have equivalent background. The course is designed to develop the language skills of the students through listening, speaking, reading, and writing. The class involves a great deal of memorization and intensive study, as well as a great deal of review of the material learned in the earlier course. Teaching methods will include oral and written drills, reading for comprehension and audio-visual method. Advance grammatical structures, oral forms, and new vocabulary will be reinforced from the lessons around everyday life situations. Establishing the weak and strong skills and how to address them - this is the major task.
Style: 25% Lecture, 25% Discussion, 25% Laboratory.
Grading: 25% mid exam, 25% final exam, 10% quizzes, 10% in-class presentation, 10% class participation, 10% laboratory evaluation, 10% problem solving.
Exam Format: Essay question, translations, oral examinations
HIST 1011W Origins: Global Societies Before 1500
3 credit(s); prereq Fr or soph or [[jr or sr], non-hist major]; Credit will not be granted if credit has been received for: HIST 1017; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive; 
Instructor: Gallia, Andrew B
Description: History 1011 is an introductory survey of world history. In this course, we will examine the sweep of human history from the emergence of agriculture and complex societies in the fourth millennium BCE to the Age of Explorations and the dawn of the modern world circa 1500 CE. The important themes in this investigation will be the forces of trade, religion, and technological innovation, the spread of ideas, and the interaction between great civilizations as they developed over time. 
Grading: 15% mid exam, 25% final exam, 30% reports/papers, 30% class participation.

HIST 1019 Globalization: Issues and Challenges
3 credit(s); prereq credit will not be granted if credit received for: 1015W, 1015V, Glos 1015W, Glos 1015V; Credit will not be granted if credit has been received for: GLOS 1015W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; 
Instructor: Namakkal, Jessica L
Description: Have recent trends in globalization diminished the divisions between East/West and North/South that have historically defined the ?modern? world? How have people and nations interacted since the end of World War II? This course will present a survey of the major issues in the history of globalization since the end of World War II. Taking the creation of contemporary mega-cities as a starting point, we will explore the histories of decolonization, the cold war, human rights, labor migration, apartheid, anti-colonial nationalism, third-world revolution, and the creation of institutions such as the United Nations, World Bank, and International Monetary Fund. Throughout the course, we will pay special attention to the ways in which nation, citizenship, class, race, gender, and religion have shaped the major global events and movements of the past sixty years. 
Style: 40% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities.

HIST 1026 Europe and the World: Expansion, Encounter, and Exchange to 1500
3 credit(s); Credit will not be granted if credit has been received for: HIST 1031V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; 
Instructor: Grace, Philip David
Description: In studying history, interconnections abound: it is virtually impossible to isolate any one nation, philosophy, or technology from all the others. On the other hand, it is even more impossible to study everything about everything. This course will avoid both impossibilities. We will zoom in on the subcontinent of Europe and the Mediterranean world in the two millennia preceding 1500, but we will keep an eye on the ways that ideas and events from elsewhere influenced internal developments. This course is also intended as an introduction to the discipline of history. We will cover the basic skills that professional historians use in their work: the techniques needed to analyze written sources for information about the past and relate them to their historical context, and to use historical evidence to advance interpretive arguments about the past. 
Style: 60% Lecture, 40% Discussion.
Grading: 30% mid exam, 30% final exam, 25% reports/papers.

HIST 1031V European and the World: Expansion, Encounter, and Exchange to 1500
4 credit(s); prereq [Fr or soph or [[jr or sr], non-hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive; 
Instructor: Matar, Nabi I
Description: Student may contact the instructor or department for information.

HIST 1032W Europe and the World: Expansion, Encounter, and Exchange From 1500 to Present
4 credit(s); prereq Fr or soph or [[jr or sr], non-hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive; 
Instructor: Lorcin, Patricia M E
Description: By means of lectures, readings and discussions this course will examine the way in which Europe interacted with the world from 1500 to the present and in the process developed the concept of "western civilization". We shall examine the significant political, economic and social developments that shaped European society and the overseas expansions, encounters and exchanges that helped to create the notion of being "western". Although this framework has been

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
chronological, emphasis will be placed on the trends and movements that influenced people’s lives and views. The course will also take into account the ways in which differences of religion, class, race, ethnicity and gender contributed to the development of this consciousness.

**HIST 1302W Global America: U.S. History Since 1865**  
4 credit(s); prereq Fr or soph or [jr or sr], non-Hist major;  
Credit will not be granted if credit has been received for:  
HIST 1306; Meets CLE req of Cultural Diversity Theme;  
meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;  
**Instructor:** Welke, Barbara Young  
**Description:** What were the circumstances that enabled the U. S. to develop into a super-power in the 20th century? How has the U. S. exercised power around the world? How did technological innovations from electricity, to film, to the automobile, to computers and the internet transform daily life, human meaning, and the exercise of state power? How is the current economic crisis like and unlike the Great Depression of the 1930s? How did the Cold War shape the international movement for human rights and rights movements in the U. S. in the 1950s, 60s, and 70s? How did the U.S. and the rest of the world come to depend on oil? What’s the relationship between deindustrialization in the U. S. in the 1970s and the development of the global assembly line? How did we move from the end of the Cold War to the War on Terror? How has the development of a global economy changed the experience of everyday life? These are some of the questions we will be asking with three specific goals: to put modern U. S. history (1865-present) in a global context; to provide a historical foundation for understanding the world we live in today; and to engage students in thinking about what history is. Specific topics include: the global significance of the American Civil War; the culture of American capitalism at home and abroad; immigration restrictions and reform; post-WWII U. S. hegemony and the creation of the “three worlds;” sovereignty and human rights; global revolution and the rise of detente; petroleum economies and the Middle East; and life in the digital age. The course includes twice-weekly lectures and discussion seminars engaged with primary source readings. Grades will be based on critical analytical essays and seminar participation.  
**Style:** 50% Lecture, 50% Discussion.  
**Grading:** 50% reports/papers, 15% special projects, 15% quizzes, 20% class participation. There are 3 short take-home papers addressing lectures and readings; 1 document analysis and presentation; regular readings quizzes; no exams; attendance is part of the participation grade

**HIST 1307 Authority and Rebellion: American History to 1865**  
3 credit(s); Credit will not be granted if credit has been received for:  
HIST 1301W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;  
**Instructor:** Young, Franz Stephan  
**Description:** Generally for this class, there are 50-100 pages reading per week (rarely more than that, but sometimes less), 10-15 pages writing per term (usually 2 medium-length papers, usually combined with few smaller assignments), 2 exams, and in-class assignments that range from a few quizzes to free-writing to group activities. This year, the themes I’d like to explore in class will be popular culture, the struggle over colonization, and how U.S. expansionism often brought notions of freedom into tension with the powerful forces of slavery and empire.  
**Style:** 30% Lecture, 30% Film/Video, 20% Discussion, 20% Small Group Activities.

**HIST 3010W Historical Research Seminar: Making Minnesota**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq Txxx or 3xxx survey course in history recommended  
Students may not repeat for credit the same section (or topic).; Meets CLE req of Writing Intensive;  
**Instructor:** Norling, Lisa A  
**Description:** This course is a History 3010 research seminar and, as such, is specifically designed to introduce students both to the content of a specific historical topic and to practice of historical research. Our topic this term will be the making of Minnesota: we will reconstruct and assess the key events and processes that, over more than two centuries, resulted in the creation of the state of Minnesota in the shape and form we know it today. We will focus specifically on the experiences of the diverse peoples involved in making Minnesota from the mid-1600s, the era of initial contact between indigenous peoples and Europeans, through 1858 when Minnesota formally achieved statehood, and up to the decisive Dakota Conflict of 1862. Readings in eye-witness accounts and scholarly books and articles, class discussions, field trips, and individual research projects will examine the overlapping phases of encounter, exploration and trade, military and diplomatic dispossession of the Dakota and Ojibwe, immigration and settlement by white and black Americans and the Europeans, and the collective transition from frontier zone of encounter through contested territory to organized state. With the instructor’s guidance, students will produce substantial (12-15 page) research projects based on original materials in the collections of the Minnesota Historical Society and other local archives.  
**Style:** 10% Lecture, 5% Film/Video, 40% Discussion, 10% Laboratory, 15% Small Group Activities, 10% Student Presentation, 10% Field Trips.  
**Grading:** 20% reports/papers, 30% special projects, 10% attendance, 15% in-class presentation, 25% class participation.

**HIST 3052 Ancient Civilization: Greece**  
3 credit(s);  
**Instructor:** Evans, John Karl  
**Description:** For a syllabus, please visit www.tc.umn.edu/~evans02/  
**Style:** 100% Lecture.  
**Grading:** 33% mid exam, 67% final exam.  
**Exam Format:** take-home essay

**HIST 3152 British History From the Seventeenth Century**  
4 credit(s); prereq credit will not be granted if credit received for:  
3152W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;  
**Instructor:** Clark, Anna Kirsten  
**Description:** This course covers British history from the 17th century, a dramatic era beginning with the Civil War and the execution of Charles I. Britain then entered the convulsions of the industrial revolution and the burgeoning and rebellious Atlantic world. During the 19th century, Britain became a superpower, the most wealthy and powerful nation, compliant in its Victorian values and confident it could rule the world. By the 20th century, the colossus faltered, after the disillusionment of the first world war and the devastating depression. Heroism returned with the Battle of Britain, but after World War II, Britain lost its empire. However, Britain rebuilt, establishing a welfare state which guaranteed health care to all, and regenerating its prosperity. We will take the story up to the present, looking at Thatcher’s rise and fall, and the rebirth of multicultural Cool Britannia. For more information write clark106@tc.umn.edu.

**HIST 3271 The Viking World: Story, History, and Archaeology**  
3 credit(s); Credit will not be granted if credit has been received for:  
**Instructor:** Swedo, Elizabeth M  
**Description:** Terrorizing the locals from Ireland to Byzantium with their swift attacks, the Vikings acquired a savage reputation in the minds and stories of their victims, typically inhabitants of medieval Christian Europe. Yet enduring influence of the Old Norse?both in the medieval world and in the modern imagination?exceeds their violent behavior. Not only successful raiders, they were also astute merchants, skilled craftsmen, diligent farmers, and savvy political players, developing kingdoms in Europe, interacting with the Muslim world, and even exploring the shores of North America. Through an array of sources, including archaeological studies and English translations of medieval histories and literature, this course examines the Viking presence in Russia and Byzantium, France,
Britain, Ireland, and follows their western expansion across the North Atlantic to North Sea islands, Iceland, Greenland, and North America. We will also consider the culture, history, arts and worldview of the Old Norse, trace their transition from paganism to Christianity, unravel their political and legal organizations, and delve into daily life in medieval Scandinavia itself. Throughout the course, we will analyze how the Vikings have been (mis)understood and (mis)represented throughout the centuries, and will ask questions about how our knowledge of the Vikings is produced.

**HIST 3348 Women in Modern America**

3-4 credit(s); Credit will not be granted if credit has been received for: GWSS 3408; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Horan, Caley Dawn

**Description:** History 3348 explores the broad historical themes that have shaped the lives and experiences of women in the United States from the Civil War to the present. Over the course of the semester, we will examine change over time in American understandings of gender and sexuality, as well as the shifting social, economic, and political roles of women in the United States. Emphasis will be placed on tracing the multiple and varied responses of women to these changes and their profound influence on American history in the modern era.

**HIST 3402W Modern Latin America 1825 to Present**

4 credit(s); Credit will not be granted if credit has been received for: LAS 3402W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspectives Theme; meets CLE req of Writing Intensive;

**Instructor:** STAFF

**Description:** This course surveys developments in Latin America from the Enlightenment and Age of Independence to the rise of bureaucratic authoritarianism (ca. 1750-present). The course will focus on the rise of the nation-state, art, culture, and diplomatic relations within Hispanic America. Themes will include race, class, gender, sexuality, and space.

**Style:** Monday classes may not meet for the full period every week.

**Grading:** 20% final exam, 50% reports/papers, 10% class participation, 20% other evaluation. Informal writing assignments.

**Exam Format:** essay

**HIST 3423 Central American Revolutions**

3 credit(s); Credit will not be granted if credit has been received for: CHIC 3423; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspectives Theme;

**Instructor:** McNamara, Patrick J

**Description:** Throughout the 1970s and 1980s, civil war and political violence swept the Central American isthmus. In an attempt to understand both the domestic and international factors that contributed to this upheaval, this course will examine the social, political, and economic issues that have shaped Central American history for nearly two centuries. We will focus primarily on the influences of colonial histories, capitalist development, ethnic and racial conflict, foreign intervention, the Catholic Church, and civil war throughout the region. We will emphasize both nation-state formation from the perspective of six independent countries (El Salvador, Guatemala, Honduras, Panama, Costa Rica, and Nicaragua), and broader region-wide experiences around export capitalism, military interventions, armed uprisings, popular protest, emigration, and ethnic conflict. The course is organized around these two major approaches. We will begin with a comparative region-wide perspective as, "The Isthmus of Central America: Colonialism, Revolution, and the Struggle for Autonomy." We will then focus on the six independent nations in the course section called, "The Nations of Central America: Independence, Nationalism, and the Struggle for Citizenship."

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

**Exam Format:** essay exams

**HIST 3431 Early Africa and Its Global Connections**

4 credit(s); Credit will not be granted if credit has been received for: AFRO 3431; Meets CLE req of Historical Perspective Core;

**Instructor:** Pohlant-and-McCormick, Helena

**Description:** Student may contact the instructor or department for information.

**HIST 3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present**

3-4 credit(s), max credits 4, 1 repeat allowed; Credit will not be granted if credit has been received for: EAS 3462; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspectives Theme;

**Instructor:** Isset, Christopher Mills

**Description:** This course is designed to introduce the main themes of East Asian history since 1500, focusing primarily on the histories of China, Japan, Korea and Vietnam. The course examines long-term changes, trends, and continuities in society, economy, politics and culture. The course also looks at the connections within Asia and between Asia and the rest of the world over this period. Class time will be devoted mostly to lectures, but will also include time for questions, discussion, and film.

**Style:** 70% Lecture. 20% Discussion.

**Grading:** 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.

**Exam Format:** Written exam/blue book/essay and identifications

**HIST 3465W China in the Ming and Qing Dynasties**

3 credit(s); Credit will not be granted if credit has been received for: EAS 3465W; Meets CLE req of Writing Intensive;

**Instructor:** Waltner, Ann Beth

**Description:** This course will look at the social history of the Ming (1368-1644) and Qing (1644-1911) dynasties. We will examine family organization, social life, religion, economic developments and China’s place in the world during this period. The class will be conducted as a mixture of lecture and discussion. We will be attentive to the question of how we know what we know about this period in Chinese history, paying attention to both textual and material sources. Readings will include primary texts (including fiction) as well as engaging works by scholars. We will write several short reaction papers and do one longer collaborative writing assignment. We will take several field trips (to the Weisman Museum, the Minneapolis Institute of Arts, and so on). For further information, contact me at waltntn001@umn.edu.

**HIST 3479 History of Chinese Cities and Urban Life**

A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed; Credit will not be granted if credit has been received for: HIST 5479;

**Instructor:** Wang, Liping

**Description:** Student may contact the instructor or department for information.

**HIST 3487 The Vietnam Wars: French Colonialism and U.S. Intervention in Indochina**

3 credit(s);

**Instructor:** Lee, Mai Na M.

**Description:** Student may contact the instructor or department for information.

**HIST 3489 20th Century India**

A-F only, 3 credit(s);

**Instructor:** Skaria, Ajay

**Description:** This course will look at the making of contemporary India by focusing on two themes. First, it will explore the transformation of forms of rule that have led to the emergence of India as ‘the world’s largest democracy’. Beginning with the consolidation of colonial power in the late...
nineteenth century, it will go on to look at how nationalists such as Nehru or Gandhi mobilized against the British, and articulated differing visions of the nation. We will also study the institutions and practices that have been central to democratic politics in India since independence in 1947. The second theme of the course will be the transformations in popular culture since the late nineteenth century. In particular, we will focus on the increasing domination of a Hindu national identity that has helped the emergence of the BJP today as one of two major political parties. We will also look at the dominance of a middle class culture that has accompanied the emergence of the India as a nation that aspires to be a global economic power. We will also explore movements and social transformations that have questioned dominant forms of popular culture.

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

**Exam Format:** essay

**HIST 3546 Islam and the West**

3 credit(s); Credit will not be granted if credit has been received for: CAS 3533;

**Instructor:** Madden, Mollie M

**Description:** Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation.

**Style:** 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.

**Grading:** 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

**HIST 3613 History of the Crusades**

3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

**Instructor:** Madden, Mollie M

**Description:** Student may contact the instructor or department for information.

**HIST 3633 Modern Germany, 1870-Present**

3 credit(s), max credits 4, 1 repeat allowed;

**Instructor:** Roubinek, Eric S

**Description:** From its creation as a nation state in 1871, Germany was a latecomer. It had neither the political traditions of its European neighbors nor the international clout, despite its size and population at the end of the nineteenth century. Even after Bismarck's creation of a united and strong German nation-state divisions continued to exist between social classes, religions, and regions. In this course we will investigate the tensions between attempts at national unity and the real political, social, and cultural divisions from the failed revolution of 1848 to German (re)unification in 1990 as Germany was created and reconstituted time and time again. Key to our studies will be trying to understand how Germany could be responsible for some of the most impressive advancements in art, literature, and science in the world, but also play a major role in the outbreak of two world wars and be responsible for the Holocaust. Alongside learning the many aspects of the history of modern Germany, we will also develop an understanding of how historians interpret evidence and reconstruct the past.

**HIST 3721 20th-Century Europe From the Turn of the Century to the End of World War II: 1900-1945**

3 credit(s); Credit will not be granted if credit has been received for: HIST 5721; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;

**Instructor:** Munholland, John Kim

**Description:** This course looks upon the development of European society and politics in an age of violent conflict, marked by two devastating world wars and revolutionary upheaval. Emphasis is upon the nature of European political structures and social arrangements on the eve of the first world war and the impact of that war upon European society with emphasis upon the major powers. The second part of the course focuses upon the failure to preserve peace in Europe, the impact of the Russian Revolution, the development of fascist states and the onset and course of the second world war. Emphasis is upon political developments and inter-state relations. The format is primarily lectures with selected readings on the background to WWI, a general history of the war, readings on the Russian Revolution, the background to WWII and an analysis of the reasons for the victory of the Allies over Germany in WWII. A general text provides historical continuity. While previous knowledge of history is helpful, the course is aimed at both history majors and non-majors. Examinations are essay type with short answer identifications. Two brief (5-7 page) papers are required.

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 20% mid exam, 40% final exam, 40% reports/papers.

**Exam Format:** Exam format is essay with some short-indentifications provided. Review sheets with sample identification items and essay questions are provided before each examination.

**HIST 3727W History of the Holocaust**

3 credit(s); Credit will not be granted if credit has been received for: RELS 3521W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

**Instructor:** Meng, Michael L

**Description:** Before the outbreak of World War II in 1939, the Jewish population of Europe was the largest in the world with over nine million Jews. In the span of a mere few years, it became one of the smallest in the wake of a massive genocide of European Jewry. By 1945, the Nazis had murdered nearly two out of every three Jews in Europe. This course seeks to deal with questions that, some sixty years after what is now known as the Holocaust, still continue to perplex: Why did the genocide happen in Europe and between the years 1941-1945? Why did Germany, a country that at 1900 stood at the height of cultural, economic, and political power, only three decades later turn into a catastrophic dictatorship of racism, war, and mass murder? Why did the Nazis see Jews as the supreme racial enemy, while also targeting Poles, Ukrainians, Soviets, homosexuals, the Roma, and the disabled? How did non-Jews living in the Nazi occupied areas of Europe react to the mass murder that was unfolding before their eyes? What were the various responses of the victims to their fate? What was everyday life like in the ghettos and the death camps? How were some Jews able to survive the genocide? This course will discuss these central questions from the perspective of Europe as a whole, but special emphasis will be given to the countries of Germany and Poland. Germany is a natural choice as the country that designed, implemented, and carried out the ?Final Solution,? and Poland is selected because it became the geographic epicenter of where the Holocaust took place after the Nazi invasion and occupation of the country in 1939.

**Style:** 60% Lecture, 40% Discussion.

**HIST 3728 Race, Nation, and Genocides in the Modern World**

A-F only, 3 credit(s);

**Instructor:** Snyder, Edward N

**Description:** Student may contact the instructor or department for information.

**HIST 3731 Citizens and the State in Modern France From the Revolution of 1789 to Post-de Gaulle: 1789-1991**

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Lorcin, Patricia M E

**Description:** The French revolution of 1789 was a turning point in European history; its impact and legacy were global. Starting with this event the course will trace the social, political and cultural history of France and its empires. It will examine why
events in France had widespread repercussions and how France became an important player in the global context during the 19th and 20th centuries.

HIST 3767 Eastern Orthodoxy: History and Culture
3 credit(s);
Instructor: Stavrou, Theofanis G
Description: Student may contact the instructor or department for information.

HIST 3778 Jews of the Islamic Mediterranean and Christian Europe, 7th-17th Centuries
3 credit(s);
Instructor: Schroeter, Daniel J
Description: The Jewish Diaspora that emerged in late antiquity and the early Middle Ages was remarkably diverse, while at the same time Jews shared common religious and cultural traditions. This course explores how Jews were shaped by the societies and cultures of the Islamic Mediterranean World and Christian Europe from 700 to 1700, while maintaining a distinctive identity. Under the dominant religions of Islam and Christianity, Jews developed autonomous religious and cultural institutions and communities, which frequently changed as Jews were influenced by and adapted to their cultural surroundings and changing historical circumstances. The relationship between diverse Jewish communities throughout the Muslim Mediterranean and Christian Europe is explored. The connections between communities were created and maintained through trade, travel, and the exchange of rabbinical culture and Jewish religious authority across political boundaries. While Jewish status suffered under Muslim and Christian rule, this course explores how the experience of Jews was influenced by changing local circumstances, migrations, expulsions, violence, persecution, and resettlement in new locations with the expansion of trade routes and political change in both the Islamic and Christian worlds.
Style: 80% Lecture, 20% Discussion.
Grading: 20% mid exam, 35% final exam, 30% reports/papers, 15% class participation.

HIST 3797 History of Population
3 credit(s);
Instructor: Ruggles, Steven
Description: Population History is the history of sex and death, along with reproduction, marriage, family structure, and migration. This course will examine controversial topics in population history from prehistory to the present, focusing especially on Europe and the Americas, and with comparative material from Asia and Africa. The topics will include: Paleodemography * Black Death and medieval population trends * Pre-Colombian population of the Americas * Demography of the slave trade * Historical demography of China * Heights and history: Anthropometric analysis * The European Marriage Pattern * The Demographic Transition * The Great Migration * African American family history * The decline of multigenerational families * The baby boom * The rise of divorce, separation, unmarried fertility, and cohabitation
Style: 50% Lecture, 10% Discussion, 10% Small Group Activities, 20% Guest Speakers.
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 10% written homework, 30% attendance.

HIST 3801 The People of Early America: 16th to 18th Centuries
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Merrill, Herbert Lincoln
Description: This course examines the history of North America during the sixteenth, seventeenth, and eighteenth centuries. It aims to explore the political, cultural, intellectual, religious, and social history of Colonial America through a narrative that is more comprehensive than the traditional Anglo-centric perspective. To that end this course will examine the interactions on the North American continent between Native Americans, African slaves, and the rival European empires of Great Britain, France, Spain, the Netherlands, and even Russia. Although employing a continental perspective that includes all of North America and the Caribbean, it culminates in the rebellion of the thirteen English colonies that became the United States. Designed for advanced history majors, the course assumes prior knowledge, and should be accessible to all undergraduates interested in North America's colonial past.
Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation.
Exam Format: Short Identifications; Essay

HIST 3812 The Civil War and Reconstruction
3 credit(s);
Instructor: Stone, Paul Clois
Description: The subtitle of this course is "Disunion" and it explores the paradox of the ideal of "the Union" in American public life, especially in the causes, settlement and legacy of the Civil War. The course is divided into three segments of unequal length: roads to disunion, disunion and union(?) with each segment introducing and examining persons and themes that are representative of the era. While it is not primarily a military history course, the military component will not be neglected and several key battles such as Fredericksburg, Antietam, and Gettysburg, and minor ones such as Pea Ridge will be examined in some depth. The course will also deal with changes in medicine, transportation and communication as well as law and moral philosophy. Finally, the course is about the people who lived through the era and those who live in the legacy of that time.
Style: 75% Lecture, 15% Discussion.
Grading: 20% mid exam, 25% final exam, 45% reports/papers, 10% class participation.
Exam Format: mixed

HIST 3821 United States in the 20th Century to 1945
3 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Zanoni, Elizabeth Ann
Description: Student may contact the instructor or department for information.

HIST 3822 United States in the 20th Century Since 1945
3 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Lindquist, Malinda A
Description: This course begins with the United States' decision to drop atomic bombs on Hiroshima and Nagasaki in August 1945. These events ended the war and shaped an atomic age at home and abroad. In the wake of a war that devastated Europe and Russia, the United States emerged as a superpower. In these hopeful decades, the United States' military and economic superiority was undisputed, but there was little consensus about how they should use their military might as the Cold War heated up or about the larger impact of affluence, consumption, and rights consciousness upon the Baby Boom generation. While the prosperity and vision of the nation seemed boundless, internal struggles about the rights of blacks, Latinos/as, Asian Americans, women, and workers both challenged the enduring narrative of the American Dream and evinced the possibility that such a dream might finally be accessible to the vast majority of Americans for the first time in the nation's history. The optimism of the postwar period was shaken by a series of crises from the brutalities of racial oppression, and the tragedies of the Vietnam Wars, to the eventual resignation of President Nixon, and the energy crises and economic recessions that followed the 1970s. Notwithstanding the post-1975 perception that the nation was in decline, evidence of economic, social, and cultural progress was as readily available as were signs of stagnation. Growth in the West and the South and suburban and exurban expansion put the American Dream within reach of a new generation even as the Rust Belt and the growth of a segregated urban underclass in the North evinced continuing inequities. The Cold War ended with little violence and the United States retained its military superiority. Yet the lessons learned from Vietnam complicated U.S. foreign policy, encouraging an isolationism that offered little in the way of international leadership in the face of a series of brutal civil wars. Globalization opened new marketplaces and the nation?s imports and exports expanded as did legal and illegal immigration, but low wages also proliferated. This course
examines the tensions between the complicated perceptions and realities of postwar U.S. history through an examination of the political, cultural, racial, gender, and class cleavages and convergences of the post-war period; the impact of hot and cold wars on domestic and foreign relations; the development and deployment of anti-communism; the Civil Rights, Black Power, New Left, American Indian, Chicano, Asian American, Women's Liberation and Gay Liberation movements; the Vietnam Wars; post-1965 immigration and the role of the United States in the global marketplace; the rise of the New Right and Evangelical politics; the culture wars; and the role of the United States in the Middle East from the CIA's participation in the 1953 coup in Iran and the oil crises to the advent of the War on Terror.

**Style:** 75% Lecture, 15% Film/Video, 15% Discussion.

**Grading:** 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation. Class participation includes discussion and also occasional map quizzes, etc.

**Exam Format:** Take-home essay format.

**HIST 3865 African American History, 1865 to Present**

A-F only, 4 credit(s); Credit will not be granted if credit has been received for: AFRO 3865; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core.

**Instructor:** Lindquist,Malinda A

**Description:** This course begins with the post-Civil War liberation of four million slaves. As the nation's newest citizens, blacks tested and exercised their newfound freedom through marriage, education, migration, and political participation. On the road to freedom during Reconstruction, southern and northern whites conspired to keep blacks in bondage. The process of undercutting the gains of Reconstruction resulted in Jim Crow segregation, disenfranchisement, and labor discrimination. While detailing black life under Jim Crow, this course also highlights African-American agency through intellectual and cultural production; and union activity and political organization. We then turn a crucial corner during the New Deal era and the Second World War, a period which set the stage for the modern civil rights struggle by unleashing a cadre of black lawyers, social scientists, grassroots activists, and political organizations who worked to tear down the walls of Jim Crow. Next we journey through the 1950s, 1960s, and 1970s and ask -- What role did black protest culture play in liberating blacks during the second reconstruction? We compare the experiences of black men and women and consider how changing ideals of manhood and womanhood shaped the various rights movements. Finally, the course grapples with a variety of contemporary issues from the black boy crisis, to the rise of hip hop and its appeal to white youth to the recent presidential candidacies of Shirley Crisholm, Jesse Jackson, Al Sharpton and Carol Mosley Braun, to the monumental election of Barack Obama in 2008.

**Style:** 70% Lecture, 15% Film/Video, 15% Discussion.

**Grading:** 20% mid exam, 25% final exam, 50% reports/papers, 20% class participation.

**HIST 3900 Topics in Medieval and Modern European History:**

Body/Soul/Spirit in Medieval & Renaissance Eur Med

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AMIN 3871; Meets CLE req of Historical Perspective Core; meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core.

**Instructor:** Wolfe,Thomas C

**Description:** This course begins with the post-Civil War liberation of four million slaves. As the nation's newest citizens, blacks tested and exercised their newfound freedom through marriage, education, migration, and political participation. On the road to freedom during Reconstruction, southern and northern whites conspired to keep blacks in bondage. The process of undercutting the gains of Reconstruction resulted in Jim Crow segregation, disenfranchisement, and labor discrimination. While detailing black life under Jim Crow, this course also highlights African-American agency through intellectual and cultural production; and union activity and political organization. We then turn a crucial corner during the New Deal era and the Second World War, a period which set the stage for the modern civil rights struggle by unleashing a cadre of black lawyers, social scientists, grassroots activists, and political organizations who worked to tear down the walls of Jim Crow. Next we journey through the 1950s, 1960s, and 1970s and ask -- What role did black protest culture play in liberating blacks during the second reconstruction? We compare the experiences of black men and women and consider how changing ideals of manhood and womanhood shaped the various rights movements. Finally, the course grapples with a variety of contemporary issues from the black boy crisis, to the rise of hip hop and its appeal to white youth to the recent presidential candidacies of Shirley Crisholm, Jesse Jackson, Al Sharpton and Carol Mosley Braun, to the monumental election of Barack Obama in 2008.

**Style:** 70% Lecture, 15% Film/Video, 15% Discussion.

**Grading:** 20% mid exam, 25% final exam, 50% reports/papers, 20% class participation. Class participation includes discussion and also occasional map quizzes, etc.

**Exam Format:** Take-home essay format.

**HIST 3959 How to Do History**

A-F only, 3 credit(s);

**Instructor:** Wolfe,Thomas C

**Description:** History is not about memorizing textbooks or chronologies. History is more fun, more challenging, more creative, and more political. This course aims to prepare you to be a good producer and consumer of history, whether you are writing a history senior paper or simply learning what history is about. You will be introduced to various issues, methodologies, styles, and materials of history writing as well as to critical thinking. There will be various kinds of archival and other exercises, in addition to lecture.

**HIST 3959H Honors: How to Do History**

A-F only, 3 credit(s);

**Instructor:** Wolfe,Thomas C

**Description:** Student may contact the instructor or department for information.

**HIST 3960 Topics in History: Refugees from a Secret War:**

Hmong in America

A-F only, 3 credit(s);

**Instructor:** Munholland,John Kim

**Description:** This course covers the history of terrorism from ancient times to the present, but the emphasis is upon terrorism in the nineteenth and twentieth centuries. Toward the end of the course we look at more recent events and assess the ways in which democratic societies can deal with terrorist threats. We will seek a definition and discuss various forms of terrorism in history. By taking a historical view, these more recent events...
emerge in perspective, showing that terrorism is nothing new, has occurred in all parts of the world, and takes different forms. The first part of the course looks at terrorist activities from the Crusades to the French Revolution and its Reign of Terror. The emphasis will be upon France, as the country of revolution in the nineteenth century and Russian terrorist movements, such as anarchism in the nineteenth century. We conclude the first section by considering how an act of terrorism brought about a catastrophic war, WWI. The second section looks at terrorism from above; that is, an institutionalized form of terror designed to intimidate a civilian population. We will also look at issues of terrorism in time of war. The final section brings us to the post-WWII era and acts of terrorism emerging from a sense of social, political and economic grievance, including wars of decolonization in mid-twentieth century and acts of violent protest in the nineteen sixties and seventies. We conclude with a comparison of certain contemporary terrorist movements.

**Style:** 65% Lecture, 35% Discussion.

**Grading:** 20% final exam, 20% reports/papers, 20% class participation. 20% of the grade will be for each of three papers totaling 60% of the final grade.

**Exam Format:** Essay type. Review sheets and sample essay questions will be provided before the examination.

**HIST 3960 Topics in History: Women in the Holocaust: Gender, Memory and Repres**

3 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent ;

**Instructor:** Baer, Elizabeth R

**Description:** Student may contact the instructor or department for information.

**HIST 3960 Topics in History: History of the Body**

3 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent ;

**Instructor:** Kunzel, Regina G

**Description:** Does the body have a history? In reflecting upon new scholarship on the body from a range of disciplines, this course challenges assumptions about what we take to be deeply natural and stable over time and space? Our bodies selves. We will read work that addresses the body as a subject of historical research and interpretation, paying particular attention to the constitution of the body in relation to historical configurations of sex, gender, and sexuality; race; notions of (dis)ability, normalcy, and fitness; the ethnographic display of bodies; body modification; and discipline and surveillance.

**Style:** 10% Lecture, 5% Film/Video, 70% Discussion, 10% Small Group Activities, 5% Student Presentation.

**Grading:** 25% final exam, 25% reports/papers, 25% reflection paper, 25% class participation.

**HIST 3960 Topics in History: European Music & Arts circa 1900**

3 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent ;

**Instructor:** Painter, PhD, Karen

**Description:** The birth of modernism and crosscurrents will be studied in the context of Central European cultural history, with a focus on nationalism and anti-Semitism. We begin with the composer (Wagner) and philosopher (Nietzsche) who most influenced art, culture, and thought around 1900, then study Debussy, Mahler, Richard Strauss, and Schoenberg alongside related literary texts.

**Style:** 33% mid exam, 67% final exam.

**Grading:** 33% mid exam, 67% final exam. Exam Format: take-home essay

**HIST 3960 Topics in History: From Selma to Soweto**

3 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent ;

**Instructor:** Autry, Robyn Kimberley

**Description:** It is difficult to identify two countries where the idea of race has so strongly shaped social life than the United States and South Africa. We will explore how state-directed segregation shaped urban environments and how the legacies of these policies continue to do so. We will ask ourselves: How does race shaped the way people navigate public space? How has political change and gentrification transformed historical patterns of racial segregation? What is the importance of national contexts in understanding how local communities mobilize to resist change, re-imagine collective identities, and absorb new groups?

**Style:** 20% Lecture, 5% Film/Video, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 25% Service Learning.

**Grading:** 30% reports/papers, 40% special projects, 15% in-class presentation, 15% class participation.

**HIST 3980W Supplemental Writing in History**

A-F only, 1 credit(s), max credits 4, 4 repeats allowed; prereq instr consent; must take a 3-cr 3xxx or 4xxx course taken concurrently; Meets CLE req of Writing Intensive;

**Instructor:** STAFF

**Description:** With the permission of the instructor of a history course, a student may add this one-credit independent study in order to make the course writing intensive. The student would then be expected to do additional written work, including the revision of at least one paper.

**HIST 3990 Historical Internship: History Day Internship**

3 credit(s), max credits 8; prereq instr consent ;

**Instructor:** Hoogland, Tim

**Description:** Student may contact the instructor or department for information.

**HIST 3990 Historical Internship: Public History**

3 credit(s), max credits 8; prereq instr consent ;

**Instructor:** Tochteman, Brian L

**Description:** Hist 3990 (?Historical Internships?) will be offered this spring to allow students to conduct and receive credit for an intensive internship in the field of public history. Past interns have worked at host organizations such as the American Swedish Institute, Mill City Museum, and the University's Immigration History Research Center. As much as is possible in terms of arranging partnerships with institutions, internships will cater to students' specific interests in areas ranging from documentary film to archival management. The instructor will meet with students prior to the start of class and assist in arranging intern placement. Hist 3990 also includes a classroom component where students will meet approximately six times during the semester and discuss readings that theorize and contextualize the different types and methods of public history, as well as literature that explores the political and cultural issues surrounding non-academic historical presentation. Because of the time commitment involved in individual internships, the writing requirement for this course is mainly limited to a journal and portfolio students will be required to keep, describing and documenting their internships, and a short reflective essay. For additional information, please contact Brian Tochteman (btochtem01@umn.edu). Note: Students expecting to do internships where they work 10 hours/week will receive three credits for the course, while internships that are 15 hours/week will receive four credits.

**HIST 4071 History of Rome to 78 B.C.**

3 credit(s); prereq An appropriate introductory course is recommended;

**Instructor:** Evans, John Karl

**Description:** The syllabus can be found at: http://www.tc.umn.edu/~evans002/

**Style:** 100% Lecture.

**Grading:** 33% mid exam, 67% final exam.

**HIST 4961V Honors: Major Paper**

A-F only, 4 credit(s); prereq dept consent, instr consent ; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

**Instructor:** Bachrach, Bernard S

**Description:** Student may contact the instructor or department for information.

**HIST 4961V Honors: Major Paper**

A-F only, 4 credit(s); prereq dept consent, instr consent ; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;

**Instructor:** Mizuno, Hiromi
HIST 4961V Honors: Major Paper
A-F only, 4 credit(s); prereq dept consent; instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;
Instructor: Trutor, Jonathan William
Description: Student may contact the instructor for information.

HIST 4961V Honors: Major Paper
A-F only, 4 credit(s); prereq dept consent; instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;
Instructor: Hakim, Carol
Description: Student may contact the instructor for information.

HIST 4961W Major Paper
A-F only, 4 credit(s); prereq dept consent; instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: The major paper seminar is the capstone course for history majors. After spending many semesters reading other scholars’ ideas and interpretations, you now have the opportunity to research, analyze, and write your own original work of scholarship. It can be one of the most rewarding intellectual experiences of your time at the University of Minnesota. The senior paper consists of a 20-30 page paper based on original research in primary sources (sources like letters, diaries, newspaper articles, interviews, government documents, etc., rather than scholarly articles or books). It can be on a topic of your choosing, but you are highly encouraged to discuss your paper topic with the instructor before the course begins. Refining the topic and even changing it often occurs during the course of the semester, but it is important to have some ideas before hand. This semester long course introduces students to the primary methods of historical research, analysis, and writing and guides students through the process of defining a topic, finding relevant secondary and primary sources, writing a research proposal, conducting the research, outlining and writing a first draft, and revising that draft to create a final paper.

HIST 5265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime
3 credit(s);
Instructor: Stavrou, Theofanis G
Description: Student may contact the instructor or department for information.

HIST 5421 Gender in Latin American History
3 credit(s);
Instructor: Chambers, Sarah C
Description: Student may contact the instructor or department for information.

HIST 5611 Proseminar in Medieval History
A-F only, 3 credit(s); prereq Grad student or instr consent; Instructor: Bachrach, Bernard S
Description: Student may contact the instructor or department for information.

HIST 5671 Proseminar: Modern Britain
A-F only, 3 credit(s); prereq instr consent;
Instructor: Elfenbein, Andrew
Description: This graduate level seminar will focus on intense reading, discussion, research in primary sources, and analytical writing. It will cover Britain from the 17th century to the present, concentrating on the themes of liberal philosophies and practices, class relations, gender, and empire. We will trace the beginnings of liberal thought with John Locke and contrast liberalism with competing traditions of classical republicanism, radicalism, and conservatism. We will ask why liberalism became so different from the 19th to the 20th century, from advocating minimal government to setting up the welfare state. Why did liberalism fail in the early 20th century and the traditional labor movement fail by the late 20th century? Another theme will be class conflict. Is class a useful way to look at British society? How does gender intersect with class? Why did it take women and working men so long to gain access to the political system? Is Britain really a democratic society? We will also examine why Britain acquired and lost an empire, and the impact of empire on domestic society, discussing such issues as the anti-slavery movement, popular imperialism, and immigration.

Style: 10% Lecture, 90% Discussion.
Grading: 80% reports/papers, 20% class participation.

HIST 5671 Proseminar: Modern Britain
A-F only, 3 credit(s); prereq instr consent;
Instructor: Clark, Anna Kirsten
Description: This graduate level seminar will focus on intense reading, discussion, research in primary sources, and analytical writing. It will cover Britain from the 17th century to the present, concentrating on the themes of liberal philosophies and practices, class relations, gender, and empire. We will trace the beginnings of liberal thought with John Locke and contrast liberalism with competing traditions of classical republicanism, radicalism, and conservatism. We will ask why liberalism became so different from the 19th to the 20th century, from advocating minimal government to setting up the welfare state. Why did liberalism fail in the early 20th century and the traditional labor movement fail by the late 20th century? Another theme will be class conflict. Is class a useful way to look at British society? How does gender intersect with class? Why did it take women and working men so long to gain access to the political system? Is Britain really a democratic society? We will also examine why Britain acquired and lost an empire, and the impact of empire on domestic society, discussing such issues as the anti-slavery movement, popular imperialism, and immigration.

Style: 10% Lecture, 90% Discussion.
Grading: 80% reports/papers, 20% class participation.

HIST 5831 Cultural Fallout: The Cold War and Its Legacy:
Readings
A-F only, 3 credit(s);
Instructor: May, Elaine Tyler
Description: This course will examine the culture of the Cold War as it developed in the years after World War II, how it affected and reflected the domestic politics, public policies, and civic life in the postwar era, the impact of domestic anti-communism, and the influence of American cultural politics abroad. We will examine how the Cold War shaped gender expectations, sexuality, class relations, racial justice and civil rights, and how its legacy has affected American politics, culture, and social life in the years since. The course will be organized in the form of a professional working group, with scholarly debates, discussions, and conference-style presentations. The purpose of this format is to model professional activities that you will engage in as you embark on your academic careers. Graduate school should serve not simply as the culmination of your education as students, but as the beginning of your career as scholars. As such, you are expected to read, write, and participate in the seminar at a level consistent with standards of professional academic life.

HIST 5900 Topics in European/Medieval History: Christians, Muslims, and Jews in Medieval/Early Pe
A-F only, 3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergrad with instr consent ];
Instructor: Lower, Michael T
Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early
HIST 5900 Topics in European/Medieval History: Nationalism/National Identification in Modern Eur
A-F only, 3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergrad with instr consent ];
Instructor: Cohen, Gary B.
Description: Student may contact the instructor or department for information.

HIST 5910 Topics in U.S. History: Engendering Race in American History
3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or advanced undergrad student with instr consent ;
Instructor: Chang, David Anthony
Description:

HIST 5935 Methods and Pedagogy in African History
A-F only, 3 credit(s); prereq Grad student or instr consent; 
Instructor: Pohlandt-McCormick, Helena
Description: Student may contact the instructor or department for information.

HIST 5960 Topics in History: Teaching Global Cities as Sites of History
3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergrad with instr consent ];
Instructor: Maynes, Mary Jo
Description: This course has several aims. First, using case studies, it will develop an interdisciplinary approach to understanding cities in a global-historical framework. Cities will be viewed as particular kinds of sites in global networks and also as sites where historical processes have left distinctive traces. We will also examine conflicts over urban space ? in particular over urban spaces that record, commemorate, or layer over historical memory and residues of the past. Second, the course will offer an opportunity for students ? singly or in project groups ? to develop a syllabus for a site-based course designed to teach one city as a site of history. Since learning abroad undergraduate classes are increasingly common at colleges and universities, the syllabus writing will provide an opportunity for students in the seminar to explore various approaches to the pedagogy of international and site-based learning. The case studies on which we will focus are: Berlin, Johannesburg, Shanghai, London, New York, and Mexico City. Throughout the semester, invited speakers will also join us to discuss the intellectual as well as the more practical or logistical issues associated with teaching global cities as sites of history.
Style: 10% Lecture, 50% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.
Grading: 30% reports/papers, 30% special projects, 10% in-class presentation, 10% class participation.

HIST 5960 Topics in History: War and Memory in East Asia
3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergrad with instr consent ];
Instructor: Mizuno, Hiromi
Description: This graduate seminar explores the politics of war and colonial memory in twentieth-century East Asia. We will explore the ways in which nationalism, post-colonialism, and other various politics have operated in shaping as well as talking and writing about memories of the past atrocities, such as the Nanjing Massacre, the Comfort Women, and Hiroshima. We will be reading latest scholarship on the issues as well as competing sides of these controversies. This is also a research seminar. Students are expected to write a mini-research paper (10-15 pages) on a topics related to the politics of war and memory in East Asia. Possible projects include an analysis of a novel/film/manga, an examination of the media discourse of a certain historical event or controversy, a historiographical essay, etc.
Style: 70% Discussion, 10% Student Presentation, 5% Guest Speakers. research and writing weeks.
Grading: 50% reports/papers, 30% attendance, 20% class participation.

HIST 5960 Topics in History: State, Genocide, and the Twentieth-Century World
3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergrad with instr consent ];
Instructor: Meng, Michael L
Description: The displacement, forced removal, and murder of people by a more powerful empire or state has occurred since the very beginning of recorded history: Homer's Iliad and the Bible are full of episodes that today we might call ethnic cleansing. And yet the twentieth century witnessed the expulsion and mass murder of people on an almost unthinkable scale. One historian has aptly called it the "century of genocide." This graduate seminar will explore the history of this extreme violence in Latin America, Asia, Europe, and Africa. If we focus on several central questions: What is the relationship between the "modern state" and mass violence? How do ordinary people become killers? What is the connection between nationalism, racism, and imperialism with mass violence? The seminar will be divided into two main sections. The first will focus on a number of conceptual and theoretical issues such as perpetrator motivation, the role of the state, and the analytical relationship between nationalism, racism, imperialism, war, and genocide. The second section will focus on six case studies of genocide and extreme violence: the Armenian genocide in the Ottoman Empire in 1915; the Nazi extermination of European Jewry from 1941-1945; the displacement, expulsion, and murder of Hindus and Muslims during the partition of India in 1947; the Cambodian genocide in 1975-1979; the mass murder of indigenous villagers in Guatemala in the early 1980s; and the genocide of Tutsis and moderate Hutu in Rwanda in 1994. In looking at these cases, we will explore the motivations of the perpetrators as well as the experiences of the victims, as well as pay close attention to the actions of local and international bystanders. Readings will come from scholars in a variety of disciplines and fields, so students outside of history are more than welcome to join. Indeed, my hope is that we will have discussions among people in different disciplines and different geographic fields of interest across the globe. Readings will include articles as well as the following books. James Waller, Becoming Evil, Eric Weitz, A Century of Genocide, Mark Levene, Genocide in the Age of the Nation-State, Omer Bartov, Germany's War and the Holocaust, Yasmin Khan, The Great Partition, Ben Kiernan, The Pol Pot Regime, Greg Grandin, The Last Colonial Massacre, and Mahmood Mamdani, When Victims Become Killers
Style: 100% Discussion.
intellectual and cultural exchange, and religious dialog and disputation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

**Style:** 100% Discussion.  
**Grading:** 50% reports/papers, 50% class participation.

**HIST 8900 Topics in European/Medieval History: Nationalism & National Identification in Mod Eur**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Cohen,Gary B.  
**Description:** Student may contact the instructor or department for information.

**HIST 8910 Topics in U.S. History: "Pursuits of Happiness": Researching/Writing**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Norling,Lisa A  
**Description:**Crevecoeur asked in 1782, “What then is the American, this new man?”. Americans asked themselves this frequently throughout the Revolution and well into the years of the early republic, reflecting on personal and collective identity in a profusion of print, unpublished, and performative genres. This graduate seminar will explore how diverse Americans’ identity in 18th- and early 19th-century Anglo-America came to be viewed as particular kinds of sites in global networks and also as sites where historical processes have left distinctive traces. We will also examine conflicts over urban space in particular over urban spaces that record, commemorate, or layer over historical memory and residues of the past. Second, the course will offer an opportunity for students to singly or in project groups to develop a syllabus for a site-based course designed to teach one city as a site of history. Since learning abroad undergraduate classes are increasingly common at colleges and universities, the syllabus writing will provide an opportunity for students in the seminar to explore various approaches to the pedagogy of international and site-based learning. The case studies on which we will focus are: Berlin, Johannesburg, Shanghai, London, New York, and Mexico City. Throughout the semester, invited speakers will also join us to discuss the intellectual as well as the more practical or logistical issues associated with teaching global cities as sites of history.  
**Grading:** 70% Discussion, 30% Student Presentation.  
**Style:** 60% reports/papers, 10% in-class presentation, 30% class participation.

**HIST 8910 Topics in U.S. History: Pop Culture & Politics in 20th C: Res Strategies**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** May,Larry L  
**Description:** Student may contact the instructor or department for information.

**HIST 8910 Topics in U.S. History: Transnational U.S. History**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Lee,Erika  
**Description:** Although historians still largely research and write within the confines of the national boundaries that define their “fields,” (like U.S. history), an increasing number of scholars have begun to use the lens of transnationalism to make visible other ways groups, ideologies, culture, capital, laws, and movements move across borders and nations. This course is a one semester research and seminar seminar that will examine the United States from transnational perspectives. The seminar first aims to introduce students to recent theory and scholarship on transnational U.S. History. The first half of the semester will be organized in seminar format, with the course participants engaged in scholarly debates, discussions, and conference-style presentations. The rest of the semester will be devoted to independent research projects; a 20-30 page paper based on original research. Topics will vary according to student research interests, but some common questions might revolve around racial formation, American imperialism, social protest movements, foreign relations, gender, labor, and migration.  
**Style:** 100% Discussion.

**HIST 8910 Topics in U.S. History: Engendering Race in American History**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Chang,David Anthony  
**Description:** Student may contact the instructor or department for information.

**HIST 8960 Topics in History: Teaching Global Cities as Sites of History**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Maynes, Mary Jo  
**Description:** This course has several aims. First, using case studies, it will develop an interdisciplinary approach to understanding cities in a global-historical framework. Cities will be viewed as particular kinds of sites in global networks and also as sites where historical processes have left distinctive traces. We will also examine conflicts over urban space in particular over urban spaces that record, commemorate, or layer over historical memory and residues of the past. Second, the course will offer an opportunity for students to singly or in project groups to develop a syllabus for a site-based course designed to teach one city as a site of history. Since learning abroad undergraduate classes are increasingly common at colleges and universities, the syllabus writing will provide an opportunity for students in the seminar to explore various approaches to the pedagogy of international and site-based learning. The case studies on which we will focus are: Berlin, Johannesburg, Shanghai, London, New York, and Mexico City. Throughout the semester, invited speakers will also join us to discuss the intellectual as well as the more practical or logistical issues associated with teaching global cities as sites of history.  
**Grading:** 30% reports/papers, 30% special projects, 10% in-class presentation, 30% class participation.

**HIST 8960 Topics in History**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Mizuno, Hiromi  
**Description:** Student may contact the instructor or department for information.

**History of Medicine**  
510 Diehl Hall (Box 506 Mayo)  

**HIST 900 Topics in History**  
A-F only, 3 credit(s), max credits 16, 5 repeats allowed;  
**Instructor:** Chang, David Anthony  
**Description:** Student may contact the instructor or department for information.

**History of Medicine**  
510 Diehl Hall (Box 506 Mayo)  

**HMED 3002W Health Care in History II**  
3 credit(s); meets CLE req of Historical Perspective Core; meets CLE req of International Perspectives Theme; meets CLE req of Writing Intensive;  
**Instructor:** Gunn, Jennifer  
**Description:** This course is the second semester of a two-semester chronological survey of the social and intellectual history of western medicine. It does not require special technical knowledge of the biomedical sciences, nor is Health Care in History I a prerequisite for enrolling in Health Care in History II. The approach of this course is to look at medicine not as an isolated set of ideas and practices in a linear march of scientific progress, but as an integral part of a culture. We seek to understand how ideas about the cause of disease, treatments, and the organization of care for the sick reflect the particular social historical context. HMED 3002 will focus on the period from the early nineteenth century to the present. We will investigate changing medical and scientific ideas about the body and disease, alternative medical systems, relationships between health care providers and patients, and the social organization of health care delivery from charity hospitals to HMOs and national health services. The course will examine the growth of medicine’s cultural authority along with professionalization, the increased incorporation of science and technology, and changing standards for education and practice. Public health, prevention, and responses to infectious disease also occupy a prominent place in this history. Students will have the opportunity to touch the past directly through the use of rare books and documents in the Wangensteen Historical Medical Library.  
**Style:** 65% Lecture, 35% Discussion.
HMED 3040 Human Health, Disease, and the Environment in History
3 credit(s); Meets CLE req of Environment Theme; meets CLE req of Historical Perspective Core;
Instructor: Gunn, Jennifer
Description: Introduction to changing relationship of human health and the environment. Ways in which human-induced environmental changes have altered our experiences with disease and our prospects for health. Four in-class 20-minute essays in lieu of a midterm (no final); research paper (5-7 pages plus two intermediate stages in the project) and group research presentation; book review (3 pages), and library skills "scavenger hunt." Although the class will have about 45 students, it is conducted as a seminar as much as possible, with class discussions and small group work.

HMED 3065 Body, Soul, and Spirit in Medieval and Renaissance European Medicine
A-F only, 3 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Shackelford, Jole Richard
Description: The body is a natural topic in today's society. As a nation and as individuals we are often preoccupied with our physical self, our appearance, our health, our pleasures, and our material possessions. Our modern identity crises are moral as well as legal, physical as well as psychological, but are often framed in terms of scientific measures that determine the health and viability of the mind and body. But for the medieval European Christian, the mind and body were necessarily viewed in a spiritual as well as a corporate context - it made no sense whatsoever to think of the health of the body apart from the health of the soul, or the life of the individual body apart from the life of the communal body. During this semester we will examine how medieval and Renaissance European medical writers understood the body, soul, and spirit and how these medical conceptions affected extra-medical concerns. Specific topics to be considered include: The body and soul in medieval theology and cosmology; Religious conceptions of the body and soul; Medical conceptions in the medieval world; Medieval and Renaissance psychology; Medical astrology and its consequences; The medical normal and abnormal body; The medicine of reproduction and sexual identity; Death, burial, dissection, and resurrection in medical and religious perspective; The Macrococsmic body and the microcosmic body; Limits to human power and authority over the individual body; The anatomical and chemical body and spirit.
Style: 95% Lecture, 5% Discussion.
Grading: 40% final exam, 60% other evaluation. 2 mid-term examinations, 30 % each.
Exam Format: Essays and short prose identifications or explanations

HMED 5201 History of Medicine from 1700 to 1900
3 credit(s); prereq 5200;
Instructor: Gunn, Jennifer
Description: This course is the second semester of a two-semester chronological survey of the social and intellectual history of western medicine. It does not require special technical knowledge of the biomedical sciences, nor is Health Care in History I a prerequisite for enrolling in Health Care in History II. The approach of this course is to look at medicine not as an isolated set of ideas and practices in a linear march of scientific progress, but as an integral part of a culture. We seek to understand how ideas about the cause of disease, treatments, and the organization of care for the sick reflect the particular social historical context. HMED 3002 will focus on the period from the early nineteenth century to the present. We will investigate changing medical and scientific ideas about the body and disease, alternative medical systems, relationships between health care providers and patients, and the social organization of health care delivery from charity hospitals to HMOs and national health services. The course will examine the growth of medicine's cultural authority along with professionalization, the increased incorporation of science and technology, and changing standards for education and practice. Public health, prevention, and responses to infectious disease also occupy a prominent place in this history. Students will have the opportunity to touch the past directly through the use of rare books and documents in the Wangensteen Historical Medical Library.
Style: 65% Lecture, 35% Discussion.

HMED 8113 Research Methods in the History of Science, Technology, and Medicine
A-F only, 3 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: HSCI 8113;
Instructor: Kohlstedt, Sally Gregory
Description: Student may contact the instructor or department for information.

HMED 8220 Seminar: Current Topics in the History of Medicine
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq instr consent ;
Instructor: Shackelford, Jole Richard
Description: Student may contact the instructor or department for information.

HMED 8632 Directed Study
A-F only, 1-6 credit(s), max credits 12; prereq instr consent ;
Instructor: Eyler, John M
Description: Student may contact the instructor or department for information.

HSCI 1212 Life on Earth: Perspectives on Biology
4 credit(s); Credit will not be granted if credit has been received for: HSCI 1214W; Meets CLE req of Environment Theme; meets CLE req of Historical Perspective Core;
Instructor: Jones, Susan D.
Description: This course explores how humans have developed theories and observations over the past 400 years about life on earth. Applying a historical perspective to issues in today's world, we will explore scientific ideas and debates across national boundaries. Specific topics include: origins of life on earth; evolution and natural theology; ecosystems; agricultural and industrial environmental degradation and species regeneration; the Guns, Germs and Steel hypothesis; and disease threats such as avian influenza.
Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: Essay

HSCI 1214W Life on Earth: Perspectives on Biology
4 credit(s); Credit will not be granted if credit has been received for: HSCI 1212; Meets CLE req of Environment Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Jones, Susan D.
Description: This course explores how humans have developed theories and observations over the past 400 years about life on earth. Applying a historical perspective to issues in today's world, we will explore scientific ideas and debates across national boundaries. Specific topics include: origins of life on earth; evolution and natural theology; ecosystems; agricultural and industrial environmental degradation and species regeneration; the Guns, Germs and Steel hypothesis; and disease threats such as avian influenza. Lecture meets with HSCI 1212; discussion section focuses on writing.
Style: 60% Lecture, 40% Discussion.
Grading: 15% mid exam, 30% final exam, 45% reports/papers, 10% class participation.
Exam Format: Essay
HSCI 1715 Technology and Civilization: Waterwheels to the Web
4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Thomas, Mary Margaret
Description: HSCI 1715 is designed for undergraduates interested in technology and history, and enrolls students with wide interests in the liberal arts, science, and engineering. There is no prerequisite. We explore the historical background and development of the most powerful technological system the world has ever known: Western Europe's. We cover relations between technology and culture since the Industrial Revolution, the diffusion of industrial technologies around the world and how various cultures adopted/adapted them, and technology's social impact, especially on Western society. We begin with case studies of industrial policy in Britain, the United States, and the connection between industrialization and exploration and discovery. We next focus on how different societies created/reacted to technologies such as the steam engine and electricity, and how the small technologies of daily life contributed to the growth of a society increasingly dependent on technology. Finally, we look at the increasingly complex technological system that nations and corporations developed to manage people and machines, and how these technologies related to social, cultural, and scientific attitudes. We end by considering the technologies of violence and hope that have dominated much of the twentieth-century.
Style: 65% Lecture, 15% Film/Video, 20% Discussion.
Grading: 20% final exam, 40% reports/papers, 40% additional semester exams, 20% class participation.
Exam Format: Short-answer identifications and essay.

HSCI 1814 Revolutions in Science: The Babylonians toNewton
4 credit(s); Credit will not be granted if credit has been received for: HSCI 3814; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Alchin, Douglas
Description: We use case episodes to understand the origins of science and how it became transformed into "modern" practice: how many cultures came to systematize knowledge of the natural world and how our current system of investigation evolved in the West. We consider ideas, methods, institutions and cultural contexts. We also develop analytical skills of historical interpretation. Student projects include a map interpretation and participatory historical simulation. Students read original documents.
Style: 50% Discussion, interactive lecture
Grading: 25% reports/papers, 33% special projects, 42% other evaluation. student designated (essay, exam, journal)
Exam Format: Essay

HSCI 1815 Revolutions in Science: Lavoisier, Darwin, and Einstein
4 credit(s); Credit will not be granted if credit has been received for: HSCI 3815; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Oldham, Kalil
Description: This is a course in the history of modern science. In the wake of the 17th century's Scientific Revolution, the natural sciences began to play an increasingly important role in modern Western society. In this course we will examine three different modern revolutions in science - in chemistry, biology, and physics - that shaped the relationship between science and society in three separate centuries - the 18th, 19th, and 20th respectively. We'll start with Antoine Lavoisier's chemical revolution and the impact it had on 18th century France and beyond. Next we'll examine the origins, meaning, and consequences of Charles Darwin's theory of evolution, which had profound reverberations throughout Europe and America in the 19th century. Finally, we'll look at Albert Einstein's "miraculous year" of 1905, which held revolutionary consequences in theoretical physics (i.e., quantum mechanics and relativity theory) as well as the relationship between science and society (i.e., the atomic bomb). This course satisfies the Historical Perspectives Diversified Core Requirement and the International Perspective Theme.

HSCI 3242 The Darwinian Revolution
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5242;
Instructor: Borrello, Mark E
Description: Charles Darwin's theory of evolution has generated controversy and comment since the publication of On the Origin of Species in 1859. It has been berated by clerics, embraced by capitalists and communists simultaneously and consistently debated by scientists themselves for the past century and a half. What is it about this idea that makes it so compelling? Why is it that so many people have so many opinions about the theory of evolution? In this course we will look at the history of the theory of evolution and attempt to make sense of these questions. Through a careful historical and philosophical analysis we will gain a deeper understanding of an idea that has become increasingly common yet remains persistently contentious. Our examination of evolutionary theory will be focused initially on Darwin and his work in the Victorian context. We then will look at the controversies over the teaching of evolution in the United States in the twentieth century, from the Scopes Monkey Trial to the current debates. Finally, we will look at the application of evolutionary theory to human behavior. The effort to understand human behavior in evolutionary terms arguably began with Darwin himself, however, the contemporary debate was initiated in the mid-1970's by Harvard entomologist Edward O. Wilson. In the final section of the course we will look at Wilson's program called sociobiology and continue our analysis into the present and an examination of the field of evolutionary psychology.

HSCI 3332 Science and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5332; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Kohlstedt, Sally Gregory
Description: Student may contact the instructor or department for information.

HSCI 3401 Ethics in Science and Technology
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5401; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Historical Perspective Core;
Instructor: Seidel, Robert W
Description: The history of science and technology offers significant episodes for ethical analysis. This course is devoted to presenting such topics as the historical differentiation of natural and moral philosophy as exemplified in the works of Francis Bacon and 17th-century scientific academies and societies; the ethical aspects of preindustrial technological societies; attempts to formulate ethical systems based on scientific exemplars such as utilitarianism, social Darwinism, and eugenics; the evolution of engineering ethics, problems in the ethics of scientific research such as the Tuskegee and Holmes projects; the scientific roots of National Socialism; and an examination of the field of evolutionary psychology.

HSCI 5242 The Darwinian Revolution
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3242;
Instructor: Borrello, Mark E
Description: Charles Darwin's theory of evolution has generated controversy and comment since the publication of On the Origin of Species in 1859. It has been berated by clerics, embraced by capitalists and communists simultaneously and consistently debated by scientists themselves for the past century and a half. What is it about this idea that makes it so compelling? Why is it that so many people have so many opinions about the theory of evolution? In this course we will look at the history of the theory of evolution and attempt to make sense of these questions. Through a careful historical and philosophical analysis we will gain a deeper understanding of an idea that has become increasingly common yet remains persistently contentious. Our examination of evolutionary theory will be focused initially on Darwin and his work in the Victorian context. We then will look at the controversies over the teaching of evolution in the United States in the twentieth century, from the Scopes Monkey Trial to the current debates. Finally, we will look at the application of evolutionary theory to human behavior. The effort to understand human behavior in evolutionary terms arguably began with Darwin himself, however, the contemporary debate was initiated in the mid-1970's by Harvard entomologist Edward O. Wilson. In the final section of the course we will look at Wilson's program called sociobiology and continue our analysis into the present and an examination of the field of evolutionary psychology.

HSCI 5332 Science and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3332; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Kohlstedt, Sally Gregory
Description: Student may contact the instructor or department for information.

HSCI 5401 Ethics in Science and Technology
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3401; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;
Instructor: Seidel, Robert W
Description: The history of science and technology offers significant episodes for ethical analysis. This course is devoted to presenting such topics as the historical differentiation of natural and moral philosophy as exemplified in the works of Francis Bacon and 17th-century scientific academies and societies; the ethical aspects of preindustrial technological societies; attempts to formulate ethical systems based on scientific exemplars such as utilitarianism, social Darwinism, and eugenics; the evolution of engineering ethics, problems in the ethics of scientific research such as the Tuskegee and Holmes projects; the scientific roots of National Socialism; and an examination of the field of evolutionary psychology.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online class schedule.
HSCI 3715 Technology and Civilization: Waterwheels to the Web
4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Thomas, Mary Margaret
Description: HSCI 3715 is designed for undergraduates interested in technology and history, and enrolls students with wide interests in the liberal arts, science, and engineering. There is no prerequisite. We explore the historical background and development of the most powerful technological system the world has ever known: Western Europe's. We cover relations between technology and culture since the Industrial Revolution, the diffusion of industrial technologies around the world and how various cultures adopted/adapted them, and technology's social impact, especially on Western society. We begin with case studies of industrialization in Britain, Germany, and the United States, and the connection between industrialization and exploration and discovery. We next focus on how different societies created/reacted to technologies such as the steam engine and electricity, and how the small technologies of daily life contributed to the growth of a society increasingly dependent on technology. Finally, we look at the increasingly complex technological system that nations and corporations developed to manage people and machines, and how these technologies related to social, cultural, and scientific attitudes. We end by considering the technologies of violence and hope that have dominated much of the twentieth-century.
Style: 65% Lecture, 15% Film/Video, 20% Discussion.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% additional semester exams, 20% class participation.
Exam Format: Short-identifications and essay.

HSCI 3814 Revolutions in Science: The Babylonians to Newton 4 credit(s); Credit will not be granted if credit has been received for: HSCI 1814; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Allichin, Douglas
Description: Course meets with and parallels HSci 1814. This section is for (future) science teachers and includes assembling material for an HPS-oriented curriculum module.
Grading: 35% special projects, 25% written homework, 42% other evaluation. Includes assembling material for an HPS-oriented science curriculum module (42%). See http://www.tc.umn.edu/~allich001/1814/teachers/

HSCI 3815 Revolutions in Science: Lavoisier, Darwin, and Einstein 4 credit(s); Credit will not be granted if credit has been received for: HSCI 1815; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Oldham, Kalil
Description: This is a course in the history of modern science. In the wake of the 17th century's Scientific Revolution, the natural sciences began to play an increasingly important role in modern Western society. In this course we will examine three different modern revolutions in science - in chemistry, biology, and physics - that shaped the relationship between science and society in three separate centuries - the 18th, 19th, and 20th respectively. We'll start with Antoine Lavoisier's chemical revolution and the impact it had on 18th century France and beyond. Next we'll examine the origins, meaning, and consequences of Charles Darwin's theory of evolution, which had profound reverberations throughout Europe and America in the 19th century. Finally, we'll look at Albert Einstein's "miraculous year" of 1905, which held revolutionary consequences in theoretical physics (i.e., quantum mechanics and relativity theory) as well as the relationship between science and society (i.e., the atomic bomb). This course satisfies the Historical Perspectives Diversified Core Requirement and the International Perspective Theme.

HSCI 5242 The Darwinian Revolution 3 credit(s); Credit will not be granted if credit has been received for: HSCI 3242; Instructor: Borrello, Mark E
Description: Student may contact the instructor or department for information.

HSCI 5332 Science and American Culture 3 credit(s); Credit will not be granted if credit has been received for: HSCI 3332; Meets CLE req of Cultural Diversity Theme; Instructor: Kohlstedt, Sally Gregory
Description: Student may contact the instructor or department for information.

HSCI 5401 Ethics in Science and Technology 3 credit(s); Credit will not be granted if credit has been received for: HSCI 3401; Meets CLE req of Citizenship/Public Ethics Theme; Instructor: Seidell, Robert W
Description: The history of science and technology offers significant episodes for ethical analysis. This course is devoted to presenting such topics as the historical differentiation of natural and moral philosophy as exemplified in the works of Francis Bacon and 17th-century scientific academies and societies; the ethical aspects of preindustrial technological societies; attempts to formulate ethical systems based on scientific exemplars such as utilitarianism, social Darwinism, and eugenics; the evolution of engineering ethics, problems in the ethics of scientific research such as the Tuskegee and Holmesberg projects; the scientific roots of National Socialism; ethical implications of the development of nuclear weapons; and ethical problems in genetic research and engineering. Students will apply this knowledge to the formulation of an appropriate ethical code appropriate to the highly technological environment of the 21st century. They will also discuss ethical issues in weekly discussion sessions of permanent small groups. In addition to historical readings and studies of ethics in science and technology, students will be presented with analyses of the instructor's research in military R&D and national laboratories. Students of science, engineering, medicine, social scientists and humanists interested in the role of science and technology in society are welcome.
Style: 50% Lecture, 35% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 5% quizzes, 5% in-class presentation, 5% class participation, 5% problem solving.
Exam Format: Essay

HSCI 5993 Directed Studies 1-15 credit(s), max credits 15, 1 repeat allowed; prereq instr consent; Instructor: Oldham, Kalil
Description: This is a graduate level seminar in the Program in History of Science, Technology, and Medicine. Our goal is to examine the origins and evolution of the concept of energy, from the first articulation of the principle of the conservation of energy in the mid-19th century through the late 20th-early 21st-century's energy crisis. We will consider the various ways the energy concept has migrated from physics to the rest of the natural sciences (e.g., chemistry, biology, psychology, ecology) and how it became a central metaphor in philosophy, literature, the arts, and social thought. Energy once denoted the technical concept of a system's capacity for mechanical work. By the end of the nineteenth century the concept was being used to predict the exhaustion of the sun's energy and dystopian vision for future life on Earth. Energy's conservation was also invoked as the reasoning behind proposals for international energy policies and the search for alternative sources of energy. These questions have only grown more poignant over the last 100 years. We will read widely in this course. We will begin with the intellectual history of the conservation of energy in the natural sciences of the mid-19th century (e.g., Kuhn, Canavea, Elkana, Smith). We will also be concerned with ways in which the energy concept was used in other scientific disciplines. From the natural sciences we will branch out - first to art and literature (e.g., Doane, Clarke) and then to the sciences of society (e.g., Alexander, Rabinbach).
HSCI 8113 Research Methods in the History of Science, Technology, and Medicine
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HMED 8113;
Instructor: Kohlstedt,Sally Gregory
Description: Student may contact the instructor or department for information.

HSCI 8830 Topics in the History of Science, Technology, and Medicine: History of Chemistry
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq instr consent;
Instructor: Seidel,Robert W
Description: Chemistry is the largest science in terms of practitioners, publications, and patronage. Yet, historians have neglected the importance of chemistry as a source of ideas, technologies and materials that shape the modern world. This course will examine new scholarship in the history of chemistry and chemical technology. We will begin with the emergence and development of chemistry, with particular reference to the recent work on alchemy which has altered the historiography of early modern science from Newton to Lavoisier. We will also consider the role of chemistry in the early industrial revolution and the rise of chemical technology, including both the heavy chemical and pharmaceutical industries, the rise of the synthetic chemical industry and the effects of World War I in promoting developments outside the German chemical industry. We will address historical questions relating to the role of alchemy in the careers of Boyle, Newton and other practitioners in the Scientific Revolution the social and economic roles of alchemists and chemists in 18th and 19th-century Europe, the Chemical Revolution of the 18th century and its historical contexts in Britain, France and Germany, the transfer of chemistry and chemical technology to the United States, the rise of societies devoted to the application of chemistry such as the Society of Arts, the Societe d'Encouragement pour l'industrie nationale in France, and the Berlin Academy, and the role of chemists in the government of France during the Revolution and Empire. The political and institutional context of the rise of the German organic chemical industry and the roles of Liebig, Pasteur, Perkins and Hoffmann in the application of chemistry to agricultural, medical and industrial development in Europe will be the subject of inquiry, as will be the rise of agricultural chemistry in the United States, where the government role in subsidizing agriculture in land-grant schools and experiment stations illustrates often neglected aspects of government support for research before World War II. The professional and intellectual development of chemistry in the United States will be considered with particular reference to the role of Institutes of Technology. Finally, the synthesis of theoretical chemistry and quantum mechanics will be examined with particular reference to the careers of Gilbert Newton Lewis and Linus Pauling. Students may select a topic relating to the history of chemistry and/or chemical technology and prepare an article length essay based upon reading and research in consultation with the instructor. Depending on the topic, credit for pre- or post-1800 and physical sciences, technology, or science and technology in America will be awarded as well as credit for a research seminar. Alternatively, students may elect to prepare an essay review of sources relating to a particular topic in consultation with the instructor and receive credit for a reading seminar.
Style: 100% Discussion. Grading: 50% reports/papers, 50% in-class presentation.

HSCI 8910 Seminar: History of Modern Physical Sciences
3 credit(s), max credits 6; prereq instr consent;
Instructor: Oldham,Kall
Description: This is a graduate level seminar in the Program in History of Science, Technology, and Medicine. Our goal is to examine the origins and evolution of the concept of energy, from the first articulation of the principle of the conservation of energy in the mid-19th century through the late 20th/early 21st-century's energy crisis. We will consider the various ways the energy concept has migrated from physics to the rest of the natural sciences (e.g., chemistry, biology, psychology, ecology) and how it became a central metaphor in philosophy, literature, the arts, and social thought. Energy once denoted the technical concept of a system's capacity for mechanical work. By the end of the nineteenth century the concept was being used to predict the exhaustion of the sun's energy and dystopian vision for future life on Earth. Energy's conservation was also invoked as the reasoning behind proposals for international energy policies and the search for alternative sources of energy. These questions have only grown more poignant over the last 100 years. We will read widely in this course. We will begin with the intellectual history of the conservation of energy in the natural sciences of the mid-19th century (e.g., Kuhn, Čaneva, Elkanah, Smith). We will also be concerned with ways in which the energy concept was used in other scientific disciplines. From the natural sciences we will branch out - first to art and literature (e.g., Doane, Clarke) and then to the sciences of society (e.g., Alexander, Rabinbach).

Hmgng 1012 Beginning Hmong
5 credit(s); prereq 1011; Credit will not be granted if credit has been received for: HMCN 4002;
Instructor: LeYang,Maxwell
Description: This course is the last of the two-semester sequence of Beginning Hmong that teaches Hmong to students with little or no exposure to the Hmong language. Students who have inherited the basics of the written language are advised to take the Accelerated Hmong course offered this semester. The contents of the course continue to include the exposure of the primary level of the written language, basic everyday conversation, and elementary vocabularies. The course will re-enforce students on Hmong alphabets (tone markers, singular and plural vowels and consonants), pronunciation, sentence structure, and the parts of speech. Class activities will be designed surrounding family, social events, health, education, and consumer themes. A minimum exploration of Hmong culture will be emphasized. Upon completion of this course, students are expected to have acquired a vast amount of Hmong vocabularies. Students must be able to converse in moderate Hmong dialogues and compose simple paragraphs. Topics covered in this semester include: 1. Different forms of verbs 2. Gender indications 3. At school, at work, at the store 4. Hmong families and clan names 5. Conversational practices and discussions Required Texts: The texts for the course are Basic Hmong Book One and Phau Xyam Nyeem Ntawv Hmong Dawb. You can find Basic Hmong Book One at the Bookstores on Campus and Phau Xyam Nyeem Ntawv Hmong Dawb at Paradigm in Dinky Dome. Legend: *= Required Style: 60% Lecture. Work group, class activities, presentation, audio/video, etc. Grading: 30% final exam, 40% quizzes, 10% class participation, 20% other evaluation. Homework and project Exam Format: Multiple choices, fill in the blanks, short answers, and oral.

HMGNG 1016 Accelerated Intermediate Hmong
5 credit(s); prereq 1015, ability in basic spoken Hmong; Credit will not be granted if credit has been received for: HMCN 4006;
Instructor: Vang,Be
Description: This course is designed for students who have already been exposed to the Hmong alphabets and have the basic skills in reading, writing, and listening. The pace for this course is very fast. One semester of this course is equivalent to two semesters of Intermediate Hmong. It is expected that the students understand all materials before coming to class to fully participate in the session. The main objectives of this course are to 1) reinforce basic reading, writing, listening, and speaking skills using the Hmong Romanized Phonetic Alphabet (RPA); 2) strengthen the students' ability to communicate and negotiate meanings in basic Hmong at the inter-personal level in the classroom, at home, and/or out in the community; and, 3) to
HMNG 4002 Beginning Hmong
3 credit(s); prereq 4001, grad student; Credit will not be granted if credit has been received for: HMNG 1012;
Instructor: LeYang, Maxwell
Description: This course is the last of the two-semester sequence of the Beginning Hmong that teaches Hmong to students with little or no exposure to the Hmong language. Students who have inherited the basics of the written language are advised to take this course after completing the Accelerated Hmong course. The contents of this course will continue to include the exposure of the primary level of the written language, basic everyday conversation, and literary vocabularies. The course will re-enforce students on Hmong alphabets (tone markers, singular and plural vowels and consonants), pronunciation, sentence structure, and the parts of speech. Class activities will be designed surrounding family, social events, health, education, and consumer themes. A minimum exploration of Hmong culture will be emphasized. Upon completion of this course, students are expected to have acquired a vast amount of Hmong vocabularies. Students must be able to converse in moderate Hmong dialogues and compose simple paragraphs. Topics covered in this semester include: 1. Different forms of verbs 2. Gender indications 3. At school, at work, at the store 4. Hmong families and clan names 5. Conversational practices and discussions for the classroom and other social settings; and, 6. Increase students' vocabulary through selected topics. The course will be taught utilizing lectures, practice or pronunciation, basic dialogues, group discussions, and class exercises. Upon completion of this course, it is expected that students will: 1. Understand sentence length utterances on a variety of topics during face to face or short telephone conversations. 2. Be able to handle successfully a variety of uncomplicated, basic, and communicative task in social situations. 3. Be able to read consistently with increase understanding simple connected texts dealing with variety of basic and social needs. 4. Be able to meet a number of practical needs through the writing of short simple letters. 5. Be able to indentify key elements of Hmong culture and history including family structure, clans, religion, customs, and folktales. 6. Increase their understanding on the usage of Hmong grammatical rules.
Style: 60% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 5%Student Presentation.
Grading: 25% mid exam, 25% final exam, 10% special projects, 10% quizzes, 15% written homework, 15% attendance.

HMNG 4004 Intermediate Hmong
3 credit(s); prereq 4003, grad student; Credit will not be granted if credit has been received for: HMNG 3022;
Instructor: Yang, Kia
Description: This course is designed for students who have already taken the Beginning Hmong courses. It is expected that the student understand all materials before coming to class to fully participate in the session. The main objectives of this course are to 1) reinforce basic reading, writing, and speaking using the Hmong Romanized Phonetic Alphabets (RPA); 2) to strengthen/enhance the students' ability to communicate and negotiate meanings in basic White Hmong at the inter-personal level in the classroom and/or school settings; and, 3) to increase students' vocabulary through selected topics. The course will be taught utilizing lectures, practice or pronunciation, basic dialogues, group discussions, and class exercises. Upon completion of this course, it is expected that students will: 1. Understand sentence length utterances on a variety of topics during face to face or short telephone conversations. 2. Be able to handle successfully a variety of uncomplicated, basic, and communicative task in social situations. 3. Be able to read consistently with increase understanding simple connected texts dealing with variety of basic and social needs. 4. Be able to meet a number of practical needs through the writing of short simple letters. 5. Be able to indentify key elements of Hmong culture and history including family structure, clans, religion, customs, and folktales. 6. Increase their understanding on the usage of Hmong grammatical rules.
Style: 60% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 5% Student Presentation.
Grading: 25% mid exam, 25% final exam, 10% special projects, 10% quizzes, 15% written homework, 15% attendance.

HMNG 3022 Intermediate Hmong
5 credit(s); prereq 3021; Credit will not be granted if credit has been received for: HMNG 4004;
Instructor: Yang, Kia
Description: This course is designed for students who have already taken the Beginning Hmong courses. It is expected that the student understand all materials before coming to class to fully participate in the session. The main objectives of this course are to 1) reinforce basic reading, writing, and speaking using the Hmong Romanized Phonetic Alphabets (RPA); 2) to strengthen/enhance the students' ability to communicate and negotiate meanings in basic White Hmong at the inter-personal level at the classroom and/or school settings; and, 3) to increase students' vocabulary through selected topics. The course will be taught utilizing lectures, practice or pronunciation, basic dialogues, group discussions, and class exercises. Upon completion of this course, it is expected that students will: 1. Understand sentence length utterances on a variety of topics during face to face or short telephone conversations. 2. Be able to handle successfully a variety of uncomplicated, basic, and communicative task in social situations. 3. Be able to read consistently with increase understanding simple connected texts dealing with variety of basic and social needs. 4. Be able to meet a number of practical needs through the writing of short simple letters. 5. Be able to indentify key elements of Hmong culture and history including family structure, clans, religion, customs, and folktales. 6. Increase their understanding on the usage of Hmong grammatical rules.
Style: 60% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 5% Student Presentation.
Grading: 25% mid exam, 25% final exam, 10% special projects, 10% quizzes, 15% written homework, 15% attendance.

HMNG 4006 Accelerated Intermediate Hmong
3 credit(s); prereq 4005, ability in basic spoken Hmong, grad student; Credit will not be granted if credit has been received for: HMNG 1016;
Instructor: Vang, Bee
Description: This course is designed for students who have already been exposed to the Hmong alphabets and have the basic skills in reading, writing, and listening. The pace for this course is very fast. One semester of this course is equivalent to two semesters of Intermediate Hmong. It is expected that the students understand all materials before coming to class to fully participate in the session. The main objectives of this course are to 1) reinforce basic reading, writing, listening, and speaking skills using the Hmong Romanized Phonetic Alphabet (RPA); 2) to strengthen/enhance the students' ability to communicate and negotiate meanings in basic White Hmong at the inter-personal level in the classroom, at home, and/or in the community; and, 3) to increase students' vocabulary through selected topics. Functions of self, family, workplace and community will be covered. The course will be taught utilizing lectures, reading and writing practice, projects, basic dialogues, group discussions, and class exercises.
Style: 60% Lecture, 5% Film/Video, 10% Discussion, 20% Small Group Activities, 5% Student Presentation.
Grading: 20% mid exam, 20% final exam, 20% special projects, 20% quizzes, 10% written homework, 10% attendance.
### HSEM 2046H Honors Seminar: Understanding Diversity: A Universal Perspective

**A-F only, 3 credit(s), max credits 3, 3 repeats allowed;**

**Instructor:** Brewer, Rose Marie

**Description:**

This course will analyze diverse forms and systems of existence?natural and designed by human beings, biological and socio-cultural. It will discuss diversity of races, cultures, languages, ideologies, and world-views. The goal of the course is to prepare students for an awareness and understanding of the interdependent workings of mind and body, human beings and nature, individual and society, diverse societies and diverse cultural systems and that these are not conflicting entities but rather complementary systems. Indira Junghare holds a Ph.D. in Linguistics from the University of Texas. Her publications are in the diverse disciplines of linguistics, literature, philosophy, and religions. To her credit are: Marathi Tadbhava Phonology, Topics in Pali Phonology, and a poetry collection, The Poetry Pond. She has translated Phanishav Nar Nenu’s Hindi epic novel, Maila Anchali (‘The Soiled Border?’), Subhadra Kumari Chauhan’s Hindi short story collection, Bikhat Moti (‘Scattered Pearls?’), and S. N. Navre’s Mathari play, Sur Rahu De (‘Let the Tune Go On?’). She has published and presented over one hundred papers in scholarly journals. Indira Junghare has been recognized as a CLA distinguished teacher and has received an Outstanding Faculty Award from the CLA Student Board at the University of Minnesota. This past year Junghare taught an Honors Seminar: You are You: Philosophy of Diversity at the University of Minnesota.

### HSEM 2205H Honors Seminar: Creative and Critical Thinking

**A-F only, 3 credit(s), max credits 6; prereq freshman or sophomore Honors student;**

**Instructor:** Hokanson, Brad

**Description:**

Creative thinking is thinking that is oriented toward understanding ideas; it is the structured aspects of higher order thinking. It includes analysis, evaluation, synthesis, and creation more than the specific knowledge of a narrow topic or content. Creative thinking is a skill that can be learned. It does require extensive work by students and faculty, but the lessons will advance their own ideas and the quality of the University. To become a critical thinker is learning to use skills that enable one to start to take charge of the ideas that run ones life; it is to think consciously and deliberately and skillfully in ways that transform oneself and to begin to remake ones own mind. It is to run ones inner workings for the first time and to understand the mental system one is running. It is to develop a mind that is analogous to the body of a person that is physically fit, like an excellent dancer who can perform any dance that can be conceived. The class will focus on practice, not on lecture. It will emphasize your figuring out things using your own mind, not memorizing what is in a text book. On a typical class day you will be in small groups practicing “disciplined” thinking and will be regularly responsible for assessing your own work using criteria and standards discussed in class. Brad Hokanson is an Associate Professor in Design, Housing, and Apparel in the College of Design, and has taught in higher education for 28 years in the fields of architecture, graphic design, design methods, interactive media, educational technology, and creativity. He has worked at the University for 15 years and over the past eight years has done extensive work with current and former students in his home colleges; during that time he has taught a Honors course for first year students called Creative Problem Solving, and from that beginning, he remains in contact with most through their University career (including three now in graduate school).

### HSEM 3002H Honors Seminar: The Black Radical Imagination

**A-F only, 3 credit(s), max credits 6;**

**Instructor:** Brewer, Rose Marie

**Description:**

This seminar introduces students to Black radical thought and practice in the African American experience. We will explore the meaning and meaning of Black radicalism and its theory practice in Africa America. While a core theme running through our analysis is the historical underpinning of Black life and oppression in the United States, a global lens is also employed. We will explore why people of African descent have occupied an oppressed position in American society and how African Americans have responded to this oppression through radical thought and practice. We will explore changes over time by employing sociological, economic, cultural, and political tools for understanding the historical and contemporary positioning of African Americans. Most importantly, we will examine how African Americans have radically imagined freedom and fought for it. Dr. Rose M. Brewer is the Morse-Alumni Distinguished Teaching Professor and past Chairperson of the African American & African Studies Department at The University of Minnesota-Twin Cities. She also holds shared appointments in the Departments of Sociology and Gender, Women, and Sexuality Studies. She received her M.A and Ph.D degrees in sociology from Indiana University, and did post doctoral studies at the University of Chicago. She has written extensively on Black families, race, class and gender, and public policy, publishing over 40 refereed journal articles, book chapters, and scholarly essays in these areas. She is the editor with Lisa Albrecht of Bridges of Power: Women’s Multicultural Alliances. She is also co-editor of Is Academic Feminism Dead: Theory in Practice, New York University Press, August 2000 with the Social Justice Group, Center for Advanced Feminist Studies, University of Minnesota. Her most recent book is The Color of Wealth, New Press, 2006. The book received the 2006 Gustavus Meyer national book award.

### HSEM 3006H Honors Seminar: Mark Twain and American Values

**A-F only, 3 credit(s), max credits 8;**

**Instructor:** Noble, David W

**Description:**

This seminar explores Mark Twain and American Values: Why did his contemporaries see Mark Twain as a humorist who represented mainstream American values? Why do many Americans today continue to see him this way? We will explore these questions because Twain’s writings seem to contradict these stereotypes. At the end of his life he predicted that an American President would use a powerful bomb to destroy the world. In his most famous novels?Huckleberry Finn, The Connecticut Yankee in King Arthur’s Court, and Puddin? Head Wilson?the heroes fail to accomplish their goals. Why then, have so many Americans identified Twain with the powerful national tradition that Americans, unlike other peoples, do not experience irony, failure, and tragedy? In addition to a discussion of Twain’s critique of the belief in American exceptionalism as a promised land, we will look at the at the ironic and tragic aspects of his personal life. We will use his life history, 1835 ? 1910, and his major writings to explore some of the major complexities and contradictions in the dominant American middle-class culture of the second half of the nineteenth century. David W. Noble is a core member of the American Studies department. He is an historian whose interests include the intellectual history of the discipline of American Studies. He also writes about the narratives of major modernists, relativists and historians. Concepts of space and time provide the focus for his analysis of the dominant male Anglo-Protestant culture and for its loss of cultural hegemony since World War Two. This analysis makes its way into his most recent book Death of a Nation: American Culture and the End of Exceptionalism. Currently, he is working on another book project; tentatively titled The International Marketplace is the End of the Enlightenment: How Academics, Economists, Humanists, and Environmentalists Understand the Market. In this project, he is interested in how economists have defined the marketplace as a timeless space and how academics, humanists, and environmentalists reject that assertion; claiming that time and space are interrelated.

### HSEM 3011H Honors Seminar: Pyramids to Flowers: Sites of Commemoration

**Instructor:**

This seminar explores the meaning and meaning of Black radicalism and its theory practice in Africa America. While a core theme running through our analysis is the historical underpinning of Black life and oppression in the United States, a global lens is also employed. We will explore why people of African descent have occupied an oppressed position in American society and how African Americans have responded to this oppression through radical thought and practice. We will explore changes over time by employing sociological, economic, cultural, and political tools for understanding the historical and contemporary positioning of African Americans. Most importantly, we will examine how African Americans have radically imagined freedom and fought for it. Dr. Rose M. Brewer is the Morse-Alumni Distinguished Teaching Professor and past Chairperson of the African American & African Studies Department at The University of Minnesota-Twin Cities. She also holds shared appointments in the Departments of Sociology and Gender, Women, and Sexuality Studies. She received her M.A and Ph.D degrees in sociology from Indiana University, and did post doctoral studies at the University of Chicago. She has written extensively on Black families, race, class and gender, and public policy, publishing over 40 refereed journal articles, book chapters, and scholarly essays in these areas. She is the editor with Lisa Albrecht of Bridges of Power: Women’s Multicultural Alliances. She is also co-editor of Is Academic Feminism Dead: Theory in Practice, New York University Press, August 2000 with the Social Justice Group, Center for Advanced Feminist Studies, University of Minnesota. Her most recent book is The Color of Wealth, New Press, 2006. The book received the 2006 Gustavus Meyer national book award.
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Spring 2009

HSem 3052H Honors Seminar: Democracy and Markets: Complementary or Not?  
A-F only, 3 credit(s), max credits 6;  
Instructor: Freeman, John Roy  
Description: HSem 3052H Democracy and Markets: Complementary or Not? Are democracy and markets compatible? Do democratic processes and institutions undermine or enhance the workings of markets and vice versa? Competing theoretical perspectives from political economy are evaluated. And the experiences of countries with different political economic institutions are studied. Most of these countries are located in North America and Europe. John R. Freeman is Distinguished McKnight Professor of Political Science. He has been awarded both the all-University Morse Alumni and CLA distinguished teaching awards. The address for his website is: www.polisci.umn.edu/~freeman.

HSem 3053H Honors Seminar: Flexible Thinking: Cognitive Neuroscience Views  
A-F only, 3 credit(s), max credits 6;  
Instructor: Koutstaal, Wilma  
Description: HSem 3053H Flexible Thinking: Cognitive Neuroscience Perspectives This seminar course will examine recent research findings from the cognitive, brain, and social sciences to arrive at a better understanding of the conditions that foster, or impede, flexible thinking. A recurrent theme will be that creatively adaptive thinking depends both on automatic (intuitive/perceptual) mental processes and more controlled or deliberate processes and most often emerges from a combination of these two modes of processing. Representative topics will include: the search for evidence and jumping to conclusions, including reliance on delusional thinking, and automatic thinking; the effects of reinforcing variable rather than habitual behavior; the role of goals, and adaptive changes in goals, in the creative development of ideas; the need for both highly specific and more abstract ways of accessing our knowledge and memory for experiences; the ways in which emotions may enhance or impair flexibility in thought; and the importance of mentally stimulating environments in adaptive cognition and behavior, and the brain changes that both accompany, and support, flexible thinking. We will read original research papers from several disciplines and multiple methodologies so as to arrive at a broad, integrated, and empirically informed view of flexible thinking. Dr. Wilma Koutstaal is an Associate Professor of Psychology. Her research on human memory, thinking, and judgment focuses on factors that influence how and when we successfully use what we know, particularly the levels of detail at which we encode and use information, and how this contributes to effective problem solving and creative thought. Research in her lab draws on many methodologies: cognitive-behavioral studies both with healthy young and older adults and neuropsychological populations (e.g., global amnesia, semantic dementia), clinical psychology (e.g., effects of depression on thinking and judgment), and brain imaging (functional magnetic resonance imaging). Dr. Koutstaal also teaches an upper year seminar course on Memory, Belief, and Juridiction (Psy 5960), and the Psychology of Human Learning and Memory (Psy 5014).

Grading: 20% mid exam, 40% reports/papers, 20% in-class presentation, 20% class participation. There will be one term paper, due at the end of the academic term, plus a formal written proposal for the term paper, due about 6-8 weeks before the term paper.

Exam Format: The midterm exam will be a take home exam (essay format).

HSem 3055H Honors Seminar: Atrocities, Memories, and Law  
A-F only, 3 credit(s), max credits 6;  
Instructor: Savelberg, Joachim J  
Description: HSem 3055H Atrocities, Memories, and Law Current political struggles over the shape of trials against suspected terrorists are, inter alia, struggles over ways in which terrorist acts and the role of political actors will go down in history. Also, ongoing international trials of war crimes, genocide and human rights violations are likely to color collective memories. This seminar links ideas about atrocities, memories, and law. Section I addresses classical and contemporary literature on legal proceedings such as those against Nazi war criminals in Nuremberg (Landsman) and Jerusalem (Arendt); actors in the wars of the former Yugoslavia (Hagan); and cases in which American military personnel have been on trial. Section II addresses how legal proceedings color historical memories of atrocities, comparing criminal trials (Osiel) with Truth and Reconciliation Commissions (Wilson) and compensation programs (Mecklen). Finally, section III examines how such memories themselves have consequences as they may, or may not, break cycles of violence (Minow), lead to new legal institutions (Savelberg/King), or to resistance against injustice through social movements (Harris). Joachim Savelberg came to Minnesota from Germany, via research fellowships at Johns Hopkins and Harvard universities. He has been on the sociology faculty at Minnesota since 1989. He combines work in the sociology of law, crime and deviance with interests in sociological theory and the sociology of knowledge. Recent research investigated how collective memories of hate crimes in Germany and the United States. A resulting article, published in the American Journal of Sociology, received the Law and Society Award. 287

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
HSEM 3059H Honors seminar: Speech, Language and the Brain
A-F only, 3 credit(s), max credits 6;
Instructor: Zhang, Yang
Description: HSem 3059H The Science of Speech: Language and the Brain This seminar is about language, a unique and fascinating product of the human mind/brain. We will examine human language in all aspects of its structure and use in comparison with animal communication systems. We are especially interested in how infants crack the speech code with such ease and how early experience alters the brain, thereby affecting an individual’s future perceptions and actions. Both historical perspectives and current research will be introduced and discussed and students are expected to learn not only the basics of speech acoustics, speech anatomy and physiology and properties of the auditory system but also the cutting-edge technology of computer speech synthesis, automatic speech recognition, and modern brain imaging techniques. Dominant methods in speech and language research will be compared and contrasted, especially in tests of special populations involving infants, bilingual children, autistic children, dyslexics, and aphasics. A variety of delivery formats will be used, including video demonstrations, guest lectures, student presentations, debates, and software package tutorials. Hands-on experiments will be assigned as an integral component of the discussion, covering digital processing of speech and music, cross-language comparisons of speech acoustics and speech perception, brain anatomy tutor, neural activity simulator and neural network models of linguistic functions. Dr. Yang Zhang is a faculty member in the Department of Speech-Language-Hearing Sciences. His research addresses fundamental questions about language learning and brain plasticity across the life span. Zhang obtained his M.A. degree in linguistics from the University of Iowa, and completed his doctoral and postdoctoral program in Speech & Hearing Sciences with Dr. Patricia Kuhl at the University of Washington. During his doctoral training, he received a distinguished fellowship from the NTT Communication Science Laboratories in Japan for three consecutive terms (1999 – 2001). At NTT, he used magnetoencephalography (MEG) integrated with magnetic resonance imaging (MRI) under the supervision of Dr. Toshiaki Imada to study how experience alters the neural organization of speech, language, and cognition. During his postdoctoral studies, he worked on developmental speech perception and bilingualism using neurophysiological techniques including MEG, event-related potentials (ERP), and optical topography. He currently runs a high-density ERP lab and an infant research lab housed in Shevlin Hall. He also conducts extensive collaborations home and abroad, including Japan, Canada, Finland, and China. His work has important implications for theories of social, cognitive and linguistic development and for developing new models of intervention for individuals with speech and language impairments, both inherent and acquired.

HSEM 3307H Honors seminar: Reading Faces: Autism
A-F only, 3 credit(s), max credits 6;
Instructor: Yonas, Alphonso
Description: HSem 3307H Reading Faces: Investigating Autism With minimal effort, most humans gather crucial social information from the faces of others. Such face expertise is central to successful social functioning. In the autism spectrum disorders (ASD), face-processing deficits are extensive. One account of these difficulties is that faces are processed in a piecemeal rather than global fashion. The class will explore how his account of ASD could be tested. For example, do children with ASD attend only to local features of a face? If this is true, do they fail to perceive faces in a global fashion or do they process all objects in this way? A second goal of this class is to provide students with an opportunity to learn about new methods for training children to process faces in a holistic manner. Students will view videotapes of training sessions used by therapists exploring new methods and materials for treating children with this disorder. As a term paper project the class will create a manual for using a new method for training children to attend to faces and adapt a second training method that created for and used to help adults with face blindness for use with young children. The seminar-group-discussion approach is primary way graduate students receive formal instruction. This class will provide undergraduates in the honors program with a seminar experience but without the expectation that students have had previous training in the field. Al Yonas is a Professor in the Institute of Child Development, and conducts research on the development of visual perception in infants and children. He did his graduate work at Cornell University under the supervision of Eleanor Gibson, well known for her work using the “visual cliff.” In his research he has charted the development of depth perception in human infants and in other primates. He is currently collaborating with researchers at MIT and Harvard on autism spectrum disorders and prosopagnosia (face-blindness) research.

HSEM 3708H Honors Seminar: Intro to Randomized Clinical Trials
A-F only, 2 credit(s), max credits 6;
Instructor: Connett, John
Description: HSEM 3708H Introduction to Randomized Clinical Trials A clinical trial is an experiment carried out in human beings. Randomized clinical trials are the principal method used to test whether new drugs, surgical methods, or other treatments are effective in curing or preventing disease. Clinical trials require the cooperative efforts of researchers in medicine, epidemiology, pharmacology, biostatistics, data management, ethics, and behavioral sciences - plus, typically, lots of money and sometimes politics. They have enormous influence on the
modern practice of medicine. This course will provide an introduction to clinical trials through a series of historical examples: clinical trials in polio prevention, breast cancer, HIV/AIDS, heart disease, lung disease, diabetes, eye disease, acupuncture, and other areas. The emphasis here will be on: ?

- Statistical issues: design and data analysis; choice of endpoints, survival analysis, testing and estimation; intention-to-treat principle; metaanalyses. ?
- Ethical issues: potential harm to patients vs. advancement of medicine; costs and benefits and conflicts of interest; data falsification and its consequences.
- Medical issues: how clinical trials affect the practice of medicine (or don’t)? ?
- Regulatory issues: the role of the FDA and its track record

One goal of the course is to provide a rigorous but relatively painless introduction to the statistical methods used in clinical trials. John E. Connell is Professor and Head of the Division of Biostatistics in the School of Public Health. He has been at the University of Minnesota since 1975, when he was an NIH trainee in cardiovascular clinical trials. He has extensive experience in design, conduct, and analysis of clinical trials, particularly in the fields of ophthalmology and lung disease. He has been an author or co-author of over 100 publications, most of them related to clinical trials or other clinical studies.

Horticultural Science
305 Alderman Hall

HORT 1001 Plant Propagation
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: Gillman, Jeffrey Hays

Description: This course will cover basic methods of plant propagation including both asexual and sexual means. The fundamentals of plant anatomy, morphology, and physiology will also be covered.

- Style: 50% Lecture, 10% Discussion, 40% Laboratory.
- Grading: 40% mid exam, 15% final exam, 45% laboratory evaluation.
- Exam Format: short answer and multiple choice

HORT 1003 Master Gardener Core Course: Horticulture for Home & Garden
3 credit(s);
Instructor: Weisenhorn, Julie Edith

Description: This 16-module class is designed to provide a foundation in various horticulture, soil and plant sciences. Modules are taught by various faculty and Extension educators and include such pertinent topics as soils, botany, entomology, plant pathology, herbaceous and woody ornamental plants, lawncare, fruits/vegetables; integrated pest management (IPM), diagnostics, and living with wildlife. The course emphasizes extension publications/resources useful in answering consumer horticulture questions. Designed to prepare Master Gardener volunteers for service in their communities, this class is also a good option for the homeowner or industry employee looking for fundamental education in horticulture and horticulture-related topics. Classes are held annually in the metro area, in selected sites in greater Minnesota and online. Contact: Julie Weisenhorn, Director, Master Gardener Program, weise019@umn.edu; 612-625-1925.

HORT 1031 Vines and Wines: Introduction to Viticulture and Enology
OPT No Aud, 3 credit(s); prereq 21 yrs of age by date of 1st class meeting;
Instructor: Gardner, Gary M

Description: Upon completion of this course, each student will understand the knowledge of the following concepts: The process of fermentation and its role in wine production; fundamental principles of biology and culture of the grapevine; types of wine and their production differences; the major grape-growing regions of the world, the most important grape cultivars in each region, and the characteristics of the wines produced in these regions; systematic evaluation of wine; sensory characteristics; understanding commercial wine labels; the basic aspects of plant anatomy, using the grapevine as a model; the major genetic factors in grapes that contribute to wine quality; how cultural and environmental factors affect wine quality and yield; selection, production, and cultivation of grapevines in a home garden; current issues involving wine and human health; and current social and legal issues involving wine. In addition to lectures, discussion groups, and sensory evaluation (tasting) sessions, the course will include one scheduled Saturday field trip to the Horticultural Research Center (part of the Minnesota Landscape Arboretum in Chanhassen) to visit the vineyards and our research winery.

- Style: 65% Lecture, 15% Discussion. Sensory Evaluation
- Grading: 20% mid exam, 30% final exam, 30% reports/papers, 5% quizzes, 15% class participation.
- Exam Format: multiple choice; short answer

HORT 3002W Greenhouse Management
A-F only, 3 credit(s); prereq 1001 or instr consent;
Meets CLE req of Writing Intensive;
Instructor: Anderson, Neil O.

Description: Commercial greenhouses are specialized growing structures that allow for implementing environmental control during crop production. Even if you are not pursuing a career in greenhouse production, your knowledge of growing commercial crops in controlled environments will be useful for all horticulture careers. Greenhouses are common structures at retail nursery & garden centers, golf courses, and in commercial / residential landscapes. Greenhouse-grown products are used in virtually every discipline of horticultural science! The objectives of this course are to acquaint you with the identification and use of greenhouse structures and equipment, cropping systems and management, basic cultural requirements of greenhouse crops, managing the people and crops in a greenhouse operation, and conducting experiments to understand current problems. Through the use of interactive learning, individualized field trips, guest lectures, intensive writing assignments, and in-class discussions you will learn the environmental factors manipulated within a greenhouse and how greenhouses are designed to control these factors. The course is designed for undergraduates, both majors and non-majors, and fulfills one Writing Intensive requirement within the Environmental Horticulture curriculum. Upon completion of this course, you should have command of the following concepts: - Identification of greenhouse structural components. - Knowledge of the best types of glazing materials for each crop. - Application of the principles of greenhouse site selection and construction. - Evaluation of strengths/weaknesses of greenhouse types for specific crop production requirements. - Description of the specifications for greenhouse heating, cooling, and air movement systems - Manage the daily operations of crop production in the greenhouse environment, including irrigation, fertilization, irradiance, photoperiod, temperature control, substrate selection, disease control, plant growth regulation. - Proper management of crops in the greenhouse environment. - Writing comprehensive proposals for a greenhouse business. - Maintain a functional laboratory notebook. - Knowledgeable conduct of scientific experiments, including hypothesis testing, experimental design, collection / analysis of data, reading and understanding the primary scientific literature, and writing functional and professional laboratory papers. - Teamwork necessary to accomplish tasks with colleagues from varying horticultural backgrounds, training, and experience.

HORT 3005 Environmental Effects on Horticultural Crops
4 credit(s); prereq 1001, BIOL 1009, soph;
Instructor: Markhart III, Albert Henry

Description: Student may contact the instructor or department for information.

HORT 3090 Directed Studies
2-12 credit(s), max credits 72, 6 repeats allowed; prereq Nonfr, instr consent;
Instructor: STAFF

Description: Approved field, lab or greenhouse experiences in application of horticultural information and practices.
HORT 3131 Student Organic Farm Planning, Growing, and Marketing
3 credit(s); prereq 1001 or AGRO 1101 or AGRO 1103 or BIOL 1001 or BIOL 1009 or instr consent ; Credit will not be granted if credit has been received for: AGRO 3131; Instructor: Markhart III, Albert Henry
Description: The Student Organic Farm course plans, grows, and markets organic produce and flowers from the Student Organic Farm located on the St. Paul Campus. Through weekly meetings during the Spring Semester students will review past year production and marketing successes and challenges and explore specific organic production practices for soil health and fertility, pest management, composting, handling, season extension, and options for marketing. Students will design a research project that could be executed on the farm during the summer growing season. Students will learn organic seedling production in high tunnels, effective transplanting to minimize weed competition, insect identification with an emphasis on supporting beneficial insect populations, and disease management. The organic vegetables produced on the farm have been sold at farmer’s markets, by office delivery, to restaurants, coops, and local school districts. And of course eagerly consumed by the growers!
Style: 20% Lecture, 5% Film/Video, 20% Discussion, 22% Laboratory, 20% Small Group Activities, 5% Student Presentation, 3% Field Trips, 5% Guest Speakers.
Grading: 30% special projects, 35% written homework, 5% attendance, 5% in-class presentation, 10% class participation, 15% problem solving.

HORT 4023 Landscape Design and Implementation II
A-F only, 4 credit(s); prereq 4021; Instructor: Calkins PhD, James Bruce
Description: This course is designed for environmental horticulture majors with specializations in landscape design, landscape maintenance, turf, and nursery production as well as students enrolled in individualized programs, Master of Agriculture in Horticulture students, and CCE students. Students enrolled in landscape architecture, urban and community forestry, and environmental studies should also find it an excellent elective. Course content is based on a philosophy of sustainable landscape theory and practice and the design of landscapes that are functional, maintainable, environmentally sound, cost effective, and aesthetically pleasing. This approach stresses sustainability as it relates to all phases of landscape development which includes design, implementation, and management. Students actively participate in a lecture format that also includes discussion, presentation, and case study. Laboratories utilize the Department of Horticultural Science Display and Trail Garden and Landscape Design Studio, the St. Paul and Minneapolis campus grounds, and commercial and residential sites. Students learn about all aspects of the design process including needs assessment, site survey and analysis, concept plan development, plant selection, and the development of draft and completed designs. Presentation techniques including lettering, graphics, and plan layout are also covered as are landscape plan take-offs and all the basics of bidding. Students apply these concepts through the development of design solutions for a variety of residential and commercial sites.
Style: 40% Lecture, 20% Discussion, 40% Laboratory.
Grading: 15% reports/papers, 5% class participation, 80% other evaluation. design projects

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
HORT 4096 Professional Experience Program: Internship
S-N only, 1 credit(s), max credits 2; prerequisite CFANS undergrad, instructor consent, completed internship contract;
Instructor: STAFF
Description: This course provides an opportunity for professional experience in horticulture businesses, government agencies, arboreta, and botanical gardens achieved through a supervised practical experience. Must work a minimum of 250 hours. Hort 4096 may be repeated once for a total of 2 credits. Credit for the internship will only be granted after successful completion of one of the following projects: A. Write a 4-5 page paper detailing your internship experience. The focus of the paper should be determined in consultation with your advisor. B. Present a public seminar on your internship. C. Publish a webpage about your internship.
Grading: S/N only

HORT 4401 Plant Genetics and Breeding
4 credit(s); prerequisite Biol 1009 or equiv or grad, instructor consent; Credit will not be granted if credit has been received for:
AGRO 4401;
Instructor: Thill, Christian A
Description: This course is designed for undergraduate or Master of Agriculture students. The emphasis will be on plant genetics and breeding and requires no prior genetics course (although a biology course is required). Students taking the course should be interested in using the products of plant breeding rather than being a professional plant breeder. The purpose of this course is to cultivate an appreciation for the fundamental principles of plant genetics and genetic processes and the procedures plant breeders use to create new varieties. Topics range from molecular aspects of genetics, Mendelian genetics, biotechnology, and genomics to variety development, seed multiplication, and intellectual property issues. Class material on Web CT/ Web Vista.
Style: 55% Lecture, 3% Film/Video, 5% Discussion, 30% Laboratory, 5% Small Group Activities, 2% Student Presentation. laboratory involves working with plant material in the greenhouse
Grading: 15% mid exam, 25% final exam, 20% reports/papers, 15% special projects, 15% quizzes, 15% additional semester exams. Reports and papers and special project part of labs
Exam Format: The exams emphasize problem solving and synthesis of material from lecture and labs. Questions are short answer, TF multiple choice, matching, vocabulary and problems.

HORT 5009 Pesticides in Horticulture: Their Use and Abuse
A-F only, 3 credit(s); prerequisite [ENT 4015 or ENT 4251], PIPA 2001 or instructor consent;
Instructor: Herzfeld, Dean
Description: This course covers the basics of pesticide use in horticulture. Major pesticide groups will be covered including herbicides, insecticides, fungicides and others. Mode of action, environmental fate, toxicity, and other pertinent information will be covered for various compounds. Pesticide application and safety will also be covered. Ethical use of pesticides will be investigated and discussed in depth.
Style: 75% Lecture, 25% Discussion.
Grading: 33% mid exam, 33% final exam, 34% reports/papers.

HORT 5023 Public Garden Management
2 credit(s);
Instructor: Olin, Peter Joel
Description: With the growth in public gardens, from city, county, and state gardens to private gardens donated to public service there is. and will continue to be, a demand for people skilled in the management of public gardens. Investigation into all areas of operations and management will provide an overview of the knowledge and skills necessary for an individual looking toward a career in public garden management.
Style: 30% Lecture, 30% Discussion. Site visits.
Grading: 40% reports/papers, 20% class participation, 40% other evaluation. Attendance

HORT 5032 Organic Vegetable Production
A-F only, 3 credit(s); prerequisite [3005, ENT 3005, PLPA 2001, SOIL 2125] or instructor consent;
Instructor: Thill, Christian A
Description: Sustainable commercial vegetable production systems meets one evening weekday, and two Saturdays 8:00am to 5:00pm for arranged field trips. Additionally, a 2-day professional conference on fruit and vegetables is part of the curriculum. This course is designed to familiarize you with the systems of commercial vegetable production, and improvements upon these components through research. Instruction will be concentrated on systems that represent pillars of commercial vegetable production, whereby principles of their use cross the boundaries of individual cropping systems. The systems involved are neither static nor independent, rather, quite dynamic in their relationships. Thus, students should consider this as they progress through the various areas of study. Systems include: site selection, land preparation and environmental interaction, specialized equipment, seed selection to preparation and stand establishment, cultural management practices during crop growth and development, water management, control of insects, diseases, and weeds, post harvest handling, and marketing and commodity use. The instructor will incorporate case study examples to almost every topical area covered and have guest lecturers. These activities should better prepare students for out-of-class work situations and add diversity to the learning experience.
Style: 60% Lecture, 30% Discussion. field trips, hands on
Grading: 20% mid exam, 20% final exam, 20% special projects, 10% in-class presentation, 30% problem solving.
Exam Format: Essay

HORT 5051 Floriculture Crop Production
A-F only, 4 credit(s); prerequisite 1001, 1015, 3002;
Instructor: Anderson, Neil O
Description: The purpose of this course is to acquaint students with the identification and basic cultural requirements of commercially produced bedding plants, gain experience in growing them, and conduct experiments to understand current problems. Plant physiology and breeding are integrated with commercial growing practices to enhance intelligent bedding plant production. The important role of bedding plants in the human environment will be discussed, with special emphasis on future issues. Through the use of interactive learning, field trips, written assignments, workbook questions, and in-class discussions students will learn crop requirements and the interactions between the marketing chain of breeders, producers, distributors, growers, retailers, and consumers. The course is designed for undergraduates (majors and non-majors). Upon completion of this course, each student should have command of the following concepts: - Identification of major and minor potted bedding plant crops, including annuals, biennials, and perennials. - Understand the requirements necessary to maximize asexual (% rooting) and sexual (% seed germination) propagation and yield potential. - Be conversant in the cultural requirements for the effective and timely production of bedding plants. - Understand, manipulate, and anticipate the effects of the five factors of plant growth for quality plant production. - Maintain an organized lab book for collecting data. - Correctly summarize experimental results, communicate these findings verbally and in writing to your colleagues, and develop recommendations. - Recognize quality bedding plants, using industry standards.

HORT 5090 Directed Studies
1-6 credit(s), max credits 18, 18 repeats allowed; prerequisite 8 cr upper div Hort courses, instructor consent;
Instructor: STAFF
Description: Opportunities for in-depth exploration of concepts, technology, materials, or programs in specific areas to expand professional competency and self-confidence. Planning, organizing, implementing, and evaluating knowledge obtained from formal education and experience.

HORT 5131 Student Organic Farm Planning, Growing, and Marketing
3 credit(s); prereq 1001 or AGRO 1101 or AGRO 1103 or BIOL 1001 or BIOL 1009 or instr consent; Credit will not be granted if credit has been received for: AGRO 3131; Instructor: Markhart III, Albert Henny

**Description**: Student may contact the instructor or department for information.

**HORT 6001 Master of Agriculture Project Planning**

S-N only, 1 credit(s); prereq 6000, instr consent; Instructor: Calkins, PhD, James Bruce

**Description**: HORT 6001 - M.Ag. Project Planning is the first of two classes tied to the Master of Agriculture in Horticulture (M.Ag.) Integrating (capstone) Project. Students must get permission from the instructor to register. The class meets about six times during the course of the semester on an arranged basis. The class begins with a discussion of the guidelines for proposal development followed by topic selection, development and review of first and second draft proposals, and finally the development of a completed proposal ready for review by the Graduate Studies Committee (GSC).

**Style**: 15% Lecture, 80% Discussion, 5% Student Presentation. Six one to two-hour meetings during the course of the semester

**Grading**: 100% other evaluation. Review and approval by the Graduate Studies Committee (GSC).

**HORT 6002 Master of Agriculture Project Implementation**

S-N only, 2 credit(s); prereq 6001, instr consent; Instructor: Calkins, PhD, James Bruce

**Description**: HORT 6002 - M.Ag. Project Implementation is the second of two classes tied to the Master of Agriculture in Horticulture (M.Ag.) Integrating (capstone) Project. Students must get approval from the instructor to register. During the implementation phase, the student works on the project developed and approved during the planning phase (HORT 6001). There are no formal class meetings, but the student is expected to seek guidance from the instructor and their adviser on a regular basis and to keep the instructor and their adviser informed relative to their progress as they complete their project. The class culminates with an approved completed project, as outlined in the project proposal developed and approved during the planning phase, and a public seminar. Grading: 80% reports/papers, 20% other evaluation. Grading is based on the completed Integrating Project and a public seminar.

**HORT 6003 Master of Agriculture in Horticulture Professional Experience Program: Internship**

S-N only, 1-3 credit(s), max credits 6; prereq Master of agriculture in horticulture student, instr consent, completed internship contract; Instructor: Calkins, PhD, James Bruce

**Description**: HORT 6003 - Master of Agriculture Professional Experience Program (PEP) - provides an opportunity for students to further their learning and gain practical experience through a supervised internship experience. Students are also able to further develop their skills and learn new skills during their internship experience. Students must get permission from the instructor to register. Internships may be completed with horticulture firms, government agencies, or other suitable entities. The student selects a willing adviser for the internship experience and then prepares and submits the paper work that outlines and formalizes the expectations and outcomes for the internship experience as developed and approved through consultation with the student's internship adviser and internship supervisor.

**Grading**: Grades are assigned by the student's internship adviser. Student reporting during the internship and how the internship experience will be documented and summarized are arranged between the student and the student's internship adviser.

**HORT 8007 Extension Horticulture Practicum**

1-5 credit(s), max credits 5, 1 repeat allowed; prereq 9 grad or in [ag or bio] science, instr consent; Instructor: Smith, Alan G

**Description**: Student may contact the instructor or department for information.

**HORT 8040 Horticultural Seminar**

1 credit(s), max credits 3, 3 repeats allowed; prereq Grad major in agro or applied plant sciences or hort or plant brdg or plant path or soil or instr consent; Instructor: Gillman, Jeffrey Hays

**Description**: Student may contact the instructor or department for information.

**HORT 8090 Graduate Horticultural Research**

1-12 credit(s), max credits 18, 18 repeats allowed; prereq instr consent; Instructor: Smith, Alan G

**Description**: Student may contact the instructor or department for information.

**HORT 8270 Graduate Seminar**

A-F only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plant brdg or plant path or soil] or instr consent; Credit will not be granted if credit has been received for: AGRO 8270; Instructor: Wyse, Donald L

**Description**: Student may contact the instructor or department for information.

**HORT 8280 Current Topics in Applied Plant Sciences**

S-N only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plant brdg or plant path or soil] or instr consent; Instructor: Thill, Christian A

**Description**: Student may contact the instructor or department for information.

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**Human Factors**

1100 Mechanical Engineering

**HUMF 8001 Special Topics: Human Factors/Ergonomics**

2-3 credit(s), max credits 3, 1 repeat allowed; prereq Enrollment in good standing, grad HumF minor; Instructor: Hayes, Caroline Clarke

**Description**: Student may contact the instructor or department for information.

**HUMF 8002 Proseminar in Human Factors/Ergonomics**

A-F only, 1 credit(s), max credits 2; prereq Enrollment in good standing, grad HumF minor; Instructor: Stoffregen, Thomas

**Description**: Student may contact the instructor or department for information.

**HUMF 8541 Decision Support Systems**

A-F only, 4 credit(s); prereq Undergrad-level computer programming course or instr consent; programming skills recommended; Credit will not be granted if credit has been received for: IE 8541; Instructor: Hayes, Caroline Clarke

**Description**: Student may contact the instructor or department for information.

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**Human Resource Development**

425 VoTech

**HRD 3001 Introduction to Human Resource Development**

3 credit(s); Instructor: Fritsch, Jocelyn M

**Description**: Student may contact the instructor or department for information.
HRD 3196 Profession and Practice of Human Resource Development
2 credit(s); prereq HRD undergrad;
Instructor: Anderson, Orkideh Mohajeri
Description: Student may contact the instructor or department for information.

HRD 3201 Introduction to Training and Development
A-F only, 3 credit(s);
Instructor: Boyum, Virginia Sue
Description: Student may contact the instructor or department for information.

HRD 3301 Introduction to Organization Development
3 credit(s); prereq Undergrad;
Instructor: Schrenkler, Jana C
Description: Student may contact the instructor or department for information.

HRD 5010 Foundations of Human Resource Development
1 credit(s);
Instructor: Jo, Sung Jun
Description: Student may contact the instructor or department for information.

HRD 5102 Economic Foundation of Human Resource Development
1 credit(s); prereq 5101;
Instructor: Jo, Sung Jun
Description: Student may contact the instructor or department for information.

HRD 5103 Psychological Foundation of Human Resource Development
1 credit(s); prereq 5101;
Instructor: Pozanc, Erica A
Description: Student may contact the instructor or department for information.

HRD 5104 Systems Foundation of Human Resource Development
1 credit(s); prereq 5101;
Instructor: Valerius, Joanne Dorothy Odegaard
Description: Student may contact the instructor or department for information.

HRD 5105 Strategic Planning through Human Resources
A-F only, 3 credit(s); prereq 5001 or 5101, 5102, 5103, 5104;
Instructor: Peterson, Shari L
Description: Student may contact the instructor or department for information.

HRD 5111 Facilitation and Meeting Skills
1 credit(s);
Instructor: Laeger-Hagemeister, Mary A
Description: Student may contact the instructor or department for information.

HRD 5196 Internship: Human Resource Development
S-N only, 1-10 credit(s), max credits 10, 1 repeat allowed;
prereq 5001, 5201 or 5301;
Instructor: Peterson, Shari L
Description: Student may contact the instructor or department for information.

HRD 5196 Internship: Human Resource Development
S-N only, 1-10 credit(s), max credits 10, 1 repeat allowed;
prereq 5001, 5201 or 5301;
Instructor: Anderson, Orkideh Mohajeri
Description: Student may contact the instructor or department for information.

HRD 5201 Training and Development of Human Resources
A-F only, 3 credit(s);
Instructor: Bialek, Tani Keenlyne
HRIR 3021 Human Resource Management and Industrial Relations
3 credit(s); prereq ECON 1101, ECON 1102, PSY 1001; Credit will not be granted if credit has been received for: HRIR 8021;
Instructor: Benraouane,Sid A.
Description: Student may contact the instructor or department for information.

HRIR 3031 Staffing and Selection: Strategic and Operational Concerns
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Fang,Ruolian
Description: Student may contact the instructor or department for information.

HRIR 3032 Training and Development
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Park,Tae-Youn
Description: Student may contact the instructor or department for information.

HRIR 3041 The Individual in the Organization
2 credit(s);
Instructor: Park,Tae-Youn
Description: Student may contact the instructor or department for information.

HRIR 3042 The Individual and Organizational Performance
2 credit(s);
Instructor: STAFF
Description: Factors influencing group, team, and organizational performance. Examines systems that drive organizational success. Topics include job design and organization structure, organization effectiveness measures, culture, group dynamics, teamwork; power and influence.

HRIR 5000 Topics in Human Resources and Industrial Relations
2 credit(s), max credits 8, 4 repeats allowed;
Instructor: O'Toole,Carol Ann Berg
Description: Student may contact the instructor or department for information.

HRIR 5000 Topics in Human Resources and Industrial Relations
2 credit(s), max credits 8, 4 repeats allowed;
Instructor: Benraouane,Sid A.
Description: Student may contact the instructor or department for information.

HRIR 5022 Managing Diversity
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Leslie,Lisa
Description: Student may contact the instructor or department for information.

HRIR 5023 Employment and Labor Law for the HRIR Professional
A-F only, 2 credit(s); prereq [[At least 60 sem cr or 75 qtr cr], 2.00 GPA] or grad student or instr consent;
Instructor: O'Toole,Carol Ann Berg
Description: This course covers the growing body of laws and their application to the workplace; human rights, equal employment opportunity, compensation and benefits, employee protection, and labor relations. Special issues (e.g., wrongful discharge, sexual harassment, defamation) are also discussed in the context of statute, case law, and their application to work settings.
Exam Format: True False, Multiple Choice, Short Answer

HRIR 5026 Innovative HR Leadership in the Context of Change and Uncertainty
2 credit(s); prereq [[At least 60 cr], 2.00 GPA] or grad student or dept consent ; grad majors must register A-F;
Instructor: Benraouane,Sid A.
Description: Student may contact the instructor or department for information.

HRIR 5062 Personnel Economics
2 credit(s); prereq [ECON 1101, at least 60 sem cr, 2.00 GPA]
or HRIR grad major;
Instructor: Hine,Steven Christopher
Description: Student may contact the instructor or department for information.

HRIR 8000 Graduate Topics in Human Resources and Industrial Relations
1-8 credit(s), max credits 8, 8 repeats allowed; prereq HRIR MA student or Sch Mgmt approval; grad majors must enroll A-F only;
Instructor: Bono PhD,Joyce E.
Description: This course will focus on leadership and influence processes with a primary focus on how to exert personal leadership. We will draw from research and theory on leadership, but the primary emphasis of this course is on gaining a better understanding of your own leadership potential, goals, and strengths. Coursework will involve practicing leadership skills with the goal of developing each students ability to lead themselves and others effectively.

HRIR 8001 Business Principles for the HRIR Professional
A-F only, 4 credit(s); prereq [Econ 1101 or equiv], grad HRIR major;
Instructor: Welsh,Elizabeth Toney
Description: Student may contact the instructor or department for information.

HRIR 8014 Human Resource Information Systems
2 credit(s); prereq Grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Peterson,Matthew C
Description: Student may contact the instructor or department for information.

HRIR 8023 International Human Resource Management
2 credit(s); prereq Grad HRIR major or dept consent ;
Instructor: Leslie,Lisa
Description: Student may contact the instructor or department for information.

HRIR 8031 Staffing, Training, and Development
4 credit(s); prereq Psy 1001, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Tubre,Travis
Description: Student may contact the instructor or department for information.

HRIR 8033 Employee Training: Creating a Learning Organization
2 credit(s); prereq [8031, HRIR grad student] or dept consent; HRIR grad students must register A/F;
Instructor: Tubre,Travis
Description: Student may contact the instructor or department for information.

HRIR 8034 Employee Development: Creating a Competitive Advantage
2 credit(s); prereq 8031 or instr consent, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Tubre,Travis
Description: Student may contact the instructor or department for information.
HRIR 8044 Motivation and Work Behavior in Contemporary Organizations
2 credit(s); prereq 8041 or inst consnt, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Welsh, Elizabeth Torney
Description: Student may contact the instructor or department for information.

HRIR 8045 Organizational Development, HR Metrics, and the Balanced Scorecard
2 credit(s); prereq [8041 or inst consnt]; [grad HRIR major or dept consent];
Instructor: Lindberg, Bob
Description: Student may contact the instructor or department for information.

HRIR 8051 Compensation and Benefits
4 credit(s); prereq Econ 1101, Econ 1102, Psy 1001 or inst consnt, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Davis, Mike
Description: Student may contact the instructor or department for information.

HRIR 8071 Labor Relations and Collective Bargaining
4 credit(s); prereq Econ 1101, Econ 1102 or inst consnt, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Deger, Philip
Description: Student may contact the instructor or department for information.

HRIR 8101 HRIR in Practice: Strategy, Execution, and Ethics
2 credit(s); prereq 8001, 8031, 8051, 8071, 8141, 8241, HRIR grad major;
Instructor: Coleman, Mychal Anthony
Description: Student may contact the instructor or department for information.

HRIR 8141 Organizational Theory Foundations of High-Impact HRIR
2 credit(s); prereq [8001, HRIR MA student] or dept consent;
Instructor: Ben-Ner, Avner
Description: Student may contact the instructor or department for information.

HRIR 8241 Organizational Behavior Foundations of High-Impact HRIR
2 credit(s); prereq HRIR grad major or dept consent;
Instructor: Bono, PhD, Joyce E.
Description: Student may contact the instructor or department for information.

HRIR 8812 Seminar: Human Resources and Industrial Relations Research Methodology
2-4 credit(s), max credits 8; prereq HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Shaw, Jason D.
Description: Student may contact the instructor or department for information.

HRIR 8840 Seminar: Organization Theory and Behavior
1-4 credit(s), max credits 8; prereq 8041 or inst consnt, HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Duffy, Michelle Kathleen
Description: Student may contact the instructor or department for information.

HRIR 8850 Seminar: Compensation and Reward
1-4 credit(s), max credits 8; prereq 8051 or inst consnt, HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Shaw, Jason D.
Description: Student may contact the instructor or department for information.

1-4 credit(s), max credits 8; prereq 8061 or inst consnt, HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Shaw, Jason D.
Description: Student may contact the instructor or department for information.

HUM 1002 Humanities in the West II
4 credit(s); Credit will not be granted if credit has been received for: HUM 3002; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Norwood, James
Description: In our study of the humanities in the Middle Ages (c. 500-1400 AD), we will have a great set of topics, including the phenomenon of courtly love and chivalry, the origin of the Grail myth, the Crusades, and the Knights Templar. We will study as well such influential figures as St. Augustine, Charlemagne, Eleanor of Aquitaine, Thomas Becket, and Dante. A special focus in the course will be Gothic art and architecture. We will also consider the life of Joan of Arc, the rise of medieval cities, St. Thomas Aquinas, the Magna Carta, and many other influential developments in this great age. IMPORTANT: Class attendance is required and will figure in grading. This is intended as a lively learning experience with the class composed of a wide range of students throughout the university.
Style: 80% Lecture, 10% Film/Video, 10% Discussion. For specific questions about the course, please feel free to contact me directly at norwo001@umn.edu
Grading: 45% mid exam, 45% final exam, 5% attendance, 5% other evaluation. attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes); there will be many extra credit opportunities offered in this course
Exam Format: Objective and/or essay

HUM 1003 Humanities in the West III
4 credit(s); Credit will not be granted if credit has been received for: HUM 3003; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Norwood, James
Description: ATTENTION!!! FANS OF THE DA VINCI CODE!!!! This course focuses on the contributions of the Western tradition in art, literature, history, and ideas during the periods of the Renaissance and Reformation in the fifteenth and sixteenth centuries. One of our course topics will be the phenomenon of THE DA VINCI CODE, the life and art of Leonardo, and how much of Dan Brown's popular novel is based on fact. Readings will include selected works of Machiavelli, Marlowe, Cervantes, Shakespeare, Montaigne, Erasmus, and More. We will also study the impact of Italian and Northern humanism with focused study of the life of Martin Luther. Another topic will be Italian Renaissance art with intensive study of Brunelleschi's Dome in Florence. In examining art, literature, history, philosophy, and cultural values, we will seek connections among the various disciplines. Throughout the course we will explore how the tradition of the Western humanities has shaped essential institutions, social roles, and personal values. Slide and video presentations will accompany many of the classes.
IMPORTANT: Class attendance is required and will be a component of grading. This is intended as a lively learning experience with the class composed of a wide range of student disciplines and majors.
Style: 80% Lecture, 10% Film/Video, 10% Discussion. For comments on instructor, see the ratemyprofessors.com website; for specific questions about the course, please feel free to
HUM 1005 Humanities in the West V
4 credit(s); Credit will not be granted if credit has been received for: HUM 3005; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; Instructor: Norwood, James
Description: ATTENTION!!! JANE AUSTEN FANS!!! In this course will be reading Jane Austen’s Persuasion and discussing the recent film Becoming Jane. In addition to Persuasion, we have a great lineup of books and topics from the nineteenth century. In the first half of the course, we will examine themes of society and the Industrial Revolution in our study of John Stuart Mill, Marx, Ibsen, Mary Shelley, and Henry David Thoreau. The second half will focus on the late 19th and early 20th centuries with emphasis on the themes of science and art, as we examine Darwin, Conrad, Nietzsche, Freud, Flaubert, Proust, Verne, and Wilde. Additionally, we will trace the development of art through the movements of Romanticism, Realism, and Impressionism. Video and slide presentations will accompany many of the classes. IMPORTANT: Class attendance is required and will figure in grading. This is intended as a lively learning experience with the class composed of students from a wide range of disciplines throughout the university.
Style: 80% Lecture, 10% Film/Video, 10% Discussion. For comments on instructor, see the ratemyprofessors.com website; for specific questions about the course, please feel free to contact me directly at norwo001@umn.edu
Grading: 45% mid exam, 45% final exam, 5% attendance, 5% other evaluation. attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes); there will be many extra credit opportunities offered in this course
Exam Format: Objective and/or essay

HUM 3002 Humanities in the West II
4 credit(s); Credit will not be granted if credit has been received for: HUM 1002; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; Instructor: Norwood, James
Description: IMPORTANT NOTE: This course requires a substantial independent research project for 3000-level credit. If you do not yet have junior/senior standing and have not had extensive experience in research and expository writing in the humanities, you should register for Hum 1002. In our study of the humanities in the Middle Ages (c. 500-1400 AD), we have a great set of topics, including the phenomenon of courtly love and chivalry, the origin of the Grail myth, the Crusades, and the Knights Templar. We will study as well such influential figures as St. Augustine, Charlemagne, Eleanor of Aquitaine, Thomas Becket, and Dante. A special focus in the course will be on Gothic art and architecture. We will also consider the life of Joan of Arc, the rise of medieval cities, St. Thomas Aquinas, the Magna Carta, and many other influential developments in this great age. IMPORTANT: Class attendance is required and will figure in grading. This is intended as a lively learning experience with the class composed of a wide range of students throughout the university.
Style: 80% Lecture, 10% Film/Video, 10% Discussion. For comments on instructor, see the ratemyprofessors.com website; for specific questions about the course, please feel free to contact me directly at norwo001@umn.edu
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 5% attendance, 5% other evaluation. attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes)
Exam Format: Objective and/or essay

HUM 3003 Humanities in the West III
4 credit(s); Credit will not be granted if credit has been received for: HUM 1003; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; Instructor: Norwood, James
Description: IMPORTANT NOTE: This course requires a substantial independent research project for 3000-level credit. If you do not yet have junior/senior standing and have not had extensive experience in research and expository writing in the humanities, you should register for Hum 1003. This course focuses on the contributions of the Western tradition in art, literature, history, and ideas during the periods of the Renaissance and Reformation in the fifteenth and sixteenth centuries. One of our course topics will be the phenomenon of THE DA VINCI CODE, the life and art of Leonardo da Vinci, and how much of Dan Brown’s popular novel is based on fact. Readings will include selected works of Machiavelli, Marlowe, Cervantes, Shakespeare, Montaigne, Erasmus, and More. We will also study the impact of Italian and Northern humanism, including the life of Martin Luther. Another topic will be Italian Renaissance art with intensive study of Brunelleschi’s Dome in Florence. In examining art, literature, history, philosophy, and cultural values, we will seek connections among the various disciplines. Throughout the course we will explore how the tradition of the Western humanities has shaped essential institutions, social roles, and personal values. Slide and video presentations will accompany many of the classes. IMPORTANT: Class attendance is required and will be a component of grading. This is intended as a lively learning experience with the class composed of a wide range of student disciplines and majors.
Style: 80% Lecture, 10% Film/Video, 10% Discussion. For comments on instructor, see the ratemyprofessors.com website; for specific questions about the course, please feel free to contact me directly at norwo001@umn.edu
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 5% attendance, 5% other evaluation. attendance will be worth at least 5% (with strict penalty structure for missing classes and an incentive for attending all of the classes)
Exam Format: Objective and/or essay

HUM 3910 Topics in the Humanities: Masses, Elites - Leaders, Followers

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Industrial Engineering
125 Mechanical Engineering

IE 3041 Industrial Assignment I
A-F only, 2 credit(s); prerequisite ME upper division, registration in ME co-op program;
Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

IE 4043 Industrial Assignment III
A-F only, 4 credit(s); prerequisite 4042;
Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

IE 4521 Statistics, Quality, and Reliability
4 credit(s); prerequisite Upper div or grad student or CNR;
Instructor: Arora, Sant R
Description: Student may contact the instructor or department for information.

IE 5541 Project Management
4 credit(s); prerequisite Upper div or grad student;
Instructor: Schaller, Robin E
Description: Student may contact the instructor or department for information.

IE 5541 Project Management
4 credit(s); prerequisite Upper div or grad student;
Instructor: Schaller, Robin E
Description: Student may contact the instructor or department for information.

IE 5513 Engineering Safety
A-F only, 4 credit(s); prerequisite Upper div IT or grad student;
Instructor: Chaplin, Jonathan
Description: Occupational, health, and product safety.

IE 5522 Quality Engineering and Reliability
4 credit(s); prerequisite [4521 or equiv], [Upper div or grad student or CNR];
Instructor: Staff
Description: The course focuses on building quality through product and process design and seeking continuous improvements by identifying weaknesses bottlenecks, wastes, etc., and using concepts such as Robust Design Quality Function Deployment (QFD), Failure Mode Effect Analysis (FMEA), Fault trees, event trees, goal trees, Design Review, value analysis, principles of integration, cause effect analysis, reengineering benchmarking, etc. A lot of stress is given on sampling tolerance engineering statistical process control. Control charts variable attribute, process capability indices etc. are thoroughly covered. Modeling for improvement of system reliability, availability and maintainability is also covered. The course also stresses on Organizational issues, such as Total Quality Management (TQM), employee empowerment, team work, Performance measurement ISO 9000 series certification, Malcolm Balridge Award.

Style: 80% Lecture, 20% Discussion.
Grading: 20% mid exam, 40% final exam, 30% special projects, 10% problem solving.

Exam Format: problems
University of Minnesota - Course Guide for Twin Cities Campus

Spring 2009

Schedule. Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

INET 4021 Network Programming
A-F only, 4 credit(s); prereq [CSCI 4211 or equiv professional experience or instr consent ], 45 cr; Instructor: Langanki,Mark D
Description: Network and distributed programming concepts and design using C, Java, and other higher level programming languages. Topics include sockets, TCP/ICP, RPC, streaming, CORBA, .NET, and SOAP. Labs use UNIX/Linux and MS Windows operating systems.

INET 4031 Systems Administration
A-F only, 4 credit(s); prereq [CSCI 4061 or instr consent ], 45 cr; Instructor: Everett,Lawrence W.
Description: Server and data storage architecture, SCSI, Fibre Channel, RAID and stripping; configuring hardware and software for server and data storage farms; operational factors, including backup and recovery. Lab.

INET 4032 Storage Design and Administration
A-F only, 2 credit(s); prereq [Computer with 12 GB of free hard drive space or external storage, [memory/processor capacity to run Linux from CD or virtual environment]; Instructor: Follstad,Carl
Description: Data is one of the most valuable commodities of the 21st century. Examines data storage technology development and management: local, network, and distributed storage; storage history; data protection policy and implementation including: redundancy, replication, backup, archive; security; compression and encryption; emerging technologies.

INET 4051 IT Infrastructure Operations
A-F only, 3 credit(s); prereq [CSCI 4211 or instr consent ], sr; Instructor: Victoria,Douglas D
Description: Network, server and database operations including: infrastructure architecture, organizational structure, security, metrics, vendor relations, outsourcing, capacity planning, strategic planning and budgeting. Online, case study.

INET 4082 IT Infrastructure Projects and Processes
A-F only, 2 credit(s); prereq 45 cr; Instructor: Spllett,Katherine Anna
Description: IT management overview of business partnerships, project management and lifecycles, methodologies, processes and organizational structures. Technology management, resource estimating, cost, quality, metrics and architecture concepts. Emphasis on best practices. Project assignment in student-selected IT infrastructure area of interest.

INET 4131 Advanced Database Design
A-F only, 3 credit(s); prereq [4707 or CSci 4707 or [hands-on experience using DBMS to define/populate/query a database using SQL]], basic understanding of [ER diagrams, relational databases], 45 cr; Instructor: Everest,Gordon C
Description: Focus on high-level, conceptual data modeling, to capture a rich set of data semantics as a prelude to implementation in a Relational DBMS. Reviews and builds on ER/relational database design concepts and normalization. Advanced database design constructs include subtypes/supertypes, ternary relationships, capturing rich integrity constraints and business rules. For the student who wants to become a good data modeler, and learn how to document and present their designs to facilitate human understanding. Students use Object Role Modeling (ORM) and its supporting design tool, MS VisioEA, to work through a series of progressively more difficult database design problems.

INET 4193 Directed Study
A-F only, 1-4 credit(s), max credits 12, 4 repeats allowed; prereq ITI student, dept consent ; Instructor: STAFF
Description: Independent project, topic arranged with and supervised by ITI faculty.

Information Networking
20 Classroom Office Building

INET 4021 Network Programming
A-F only, 4 credit(s); prereq [CSCI 4211 or equiv professional experience or instr consent ], 45 cr; Instructor: Langanki,Mark D
Description: Network and distributed programming concepts and design using C, Java, and other higher level programming languages. Topics include sockets, TCP/ICP, RPC, streaming, CORBA, .NET, and SOAP. Labs use UNIX/Linux and MS Windows operating systems.

INET 4031 Systems Administration
A-F only, 4 credit(s); prereq [CSCI 4061 or instr consent ], 45 cr; Instructor: Everett,Lawrence W.
Description: Server and data storage architecture, SCSI, Fibre Channel, RAID and stripping; configuring hardware and software for server and data storage farms; operational factors, including backup and recovery. Lab.

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A-F only, 2 credit(s); prereq [Computer with 12 GB of free hard drive space or external storage, [memory/processor capacity to run Linux from CD or virtual environment]; Instructor: Follstad,Carl
Description: Data is one of the most valuable commodities of the 21st century. Examines data storage technology development and management: local, network, and distributed storage; storage history; data protection policy and implementation including: redundancy, replication, backup, archive; security; compression and encryption; emerging technologies.

INET 4051 IT Infrastructure Operations
A-F only, 3 credit(s); prereq [CSCI 4211 or instr consent ], sr; Instructor: Victoria,Douglas D
Description: Network, server and database operations including: infrastructure architecture, organizational structure, security, metrics, vendor relations, outsourcing, capacity planning, strategic planning and budgeting. Online, case study.

INET 4082 IT Infrastructure Projects and Processes
A-F only, 2 credit(s); prereq 45 cr; Instructor: Spllett,Katherine Anna
Description: IT management overview of business partnerships, project management and lifecycles, methodologies, processes and organizational structures. Technology management, resource estimating, cost, quality, metrics and architecture concepts. Emphasis on best practices. Project assignment in student-selected IT infrastructure area of interest.

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A-F only, 3 credit(s); prereq [4707 or CSci 4707 or [hands-on experience using DBMS to define/populate/query a database using SQL]], basic understanding of [ER diagrams, relational databases], 45 cr; Instructor: Everest,Gordon C
Description: Focus on high-level, conceptual data modeling, to capture a rich set of data semantics as a prelude to implementation in a Relational DBMS. Reviews and builds on ER/relational database design concepts and normalization. Advanced database design constructs include subtypes/supertypes, ternary relationships, capturing rich integrity constraints and business rules. For the student who wants to become a good data modeler, and learn how to document and present their designs to facilitate human understanding. Students use Object Role Modeling (ORM) and its supporting design tool, MS VisioEA, to work through a series of progressively more difficult database design problems.

INET 4193 Directed Study
A-F only, 1-4 credit(s), max credits 12, 4 repeats allowed; prereq ITI student, dept consent ; Instructor: STAFF
Description: Independent project, topic arranged with and supervised by ITI faculty.

Information and Decision Sciences
3-353 CarlSMgmt

IDSC 3001 Information Systems for Business Processes and Management
A-F only, 3 credit(s); prereq BA 1001 or experience using Windows/Internet; Instructor: Olson,Timothy Harold
Description: Student may contact the instructor or department for information.

IDSC 3202 Analysis and Modeling for Business Systems
Development
A-F only, 4 credit(s); prereq 3001; Instructor: Fiedler, Corinne Marie
Description: We have all felt the increasing market pressure toward shorter product and service life cycles. This has led organizations to sharpen their abilities to optimize and automate their business processes. These process improvement projects occur: across all business disciplines: finance, supply chain, operations, human resources—in all types of enterprises (from Fortune 100 to single person start ups and from international public companies to local nonprofits) However, even optimized, automated processes are only a means to an end. They produce benefits only when MIS and business management work together to effectively plan and design processes that support business objectives. This class focuses on improving and automating key business processes. Topics include aligning systems projects with company strategy; systems planning and project management; process, data, and logic modeling; data concepts; and project implementation. The class covers critical skills for those with career goals in any process-oriented role in today’s enterprises, including business analyst, supply chain manager, operations manager, finance manager, MIS manager, project manager. The course includes hands-on experience with process modeling (Microsoft Visio), project management (Microsoft Project), and data base (Microsoft Access) tools.
Style: 45% Lecture, 30% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers. Class time set aside weekly for team project work.
Grading: 17% mid exam, 10% final exam, 28% special projects, 30% written homework, 15% class participation.

IDSC 4204W Managing Information Services
A-F only, 4 credit(s); prereq 3202; Meets CLE req of Writing Intensive;
Instructor: Adams, Carl Robert
Description: Student may contact the instructor or department for information.

IDSC 4401 Information Security
A-F only, 2 credit(s); prereq 3104 or instr consent;
Instructor: Schmidt, Matt
Description: Information security is recognized as one of the most prominent topics in modern information systems management. Security incidents can cause severe damage to corporations in forms of lost productivity, downtime, disclosed confidential data, and reputation implications. With attacks becoming faster and more sophisticated, it is important to understand what can be done to identify, prevent, sustain, and recover from those attacks. One particular aspect of information security that will be the major focus of this class is network security. The importance of network security puts pressure on information systems managers from two directions. On one hand, we are very dependent on internal (LAN) and external (Internet) networks, and losing network access may lead to catastrophic consequences. On another hand, a majority of attacks against information systems are carried out remotely by the means of the same networks that are used for legitimate communications. In this class, we will discuss common problems with basic solutions and techniques that make computer networks and data safer. We will look at the common practices followed by hackers and consider tools that are used for networks attacks as well as how to detect and stop those attacks. This class will be beneficial for you if you are preparing for a career in information systems and related areas, particularly with network management and support or IT audit and assurance. In addition, this class will cover a substantial portion of material common on the Security+ certification exam. This certification is beneficial for people interested in careers in Information Security area. The class will be held primarily in lecture mode with a significant amount of discussion on some tools along with in-class demonstrations. Students are encouraged to read about and bring examples of security incidents for class discussion and relate the class concepts to real-world issues.
Style: 55% Lecture, 20% Discussion, 20% Demonstration, 5% Guest Speakers.
Grading: 25% final exam, 35% special projects, 30% quizzes, 10% other evaluation. 3 quizzes at 10% each, 2 projects: one at 15%, and one at 20%
Exam Format: T/F w/ explanation Multiple choice Short Answer

IDSC 4411 Accounting Systems and IT
Governance
A-F only, 2 credit(s); prereq 3001;
Instructor: Schmidt, Matt
Description: As organizations become more and more dependent on information technology, they are being challenged to build and maintain an internal control structure to manage IT risk to an acceptable level. Additionally, regulations such as Sarbanes-Oxley, GLBA, and HIPAA have increased the need for sound internal control and security management, coupled with audit oversight. This course provides the student with an in-depth look into the information technology audit function, internal control, the IT audit process, network security, the systems development life-cycle, compliance issues, IT governance, business continuity, and the various frameworks and methodologies. A series of lectures, case studies, and real world examples will be used to demonstrate this material.
Style: 50% Lecture, 10% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Demonstration, 10% Guest Speakers.
Please note that percentages are estimates.
Grading: 45% mid exam, 45% final exam, 10% class participation.

IDSC 4431 Advanced Database Design
A-F only, 2 credit(s); prereq 3103;
Instructor: Everest, Gordon C
Description: Raise your database design skills to a whole new level. This course receives very high ratings from students. One wrote "enjoyed your class tremendously; one of the best I had at the U." Students learn something substantive to greatly enhance a career in IS, and have fun in the process. This course presents a high-level, conceptual data modeling scheme called Object Role Modeling (ORM). Students gain practical experience developing data models using ORM and its supporting CASE tool, the Neumont ORM Architect (NORMA), which is open source software. Topics include: the basics of Entity-Relationship Diagrams (ERD), relational database modeling, and the principles of data normalization; a comprehensive taxonomy and comparison of data modeling schemes; advanced constructs in database design - subtypes and supertypes, ternary relationships, integrity constraints; capturing and representing facts and advanced business rule semantics in a data model; presentation and verbalization of a data model diagram for human understanding and validation; conducting a data modeling project; and mapping an ORM data model to a relational data model. ORM is a new way of thinking which avoids "table think." It enables data modelers to produce models which are semantically richer and easier to understand than traditional "record-based" data modeling schemes, such as Entity-Relationship (ER) Diagrams and relational tables. TEXT: Terry Halpin and Tony Morgan, Information Modeling and Relational Databases, Morgan-Kaufmann, 2008. AUDIENCE -- For the student or practicing IS professional who wants to learn how to do a good job of designing databases. This course provides the necessary methodology and tool skills.
Style: 70% Lecture, 20% Discussion, 10% Demonstration.
Grading: 30% written homework, 15%, and one at 20%
Exams: Two midterms at 25% each. One final exam. Short answer, true/false multiple choice.

IDSC 4490 Information Systems Special Topics: Business Intelligence
A-F only, 2 credit(s), max credits 10, 5 repeats allowed;
Instructor: Reily, Ken
Description: The interaction between companies and their...
customers has changed dramatically in recent years. Customers and prospective customers want to interact with companies on their own terms, and a customer’s continued business is no longer a guarantee. As a result, companies have realized that they need to understand their customers better and to be able to respond to various customer needs in a timely fashion. Business intelligence is the use of information technologies for gathering, storing, analyzing, and providing access to data to help managers make better decisions about their business and the way they serve customers. The innovative use of business intelligence technologies forms a powerful basis for competitive advantage in today’s networked economy. The purpose of this course is to explain how technologies such as data mining, data warehousing, and personalization can help in many important business applications. This course begins by covering these topics at a basic fundamental level for those who have little or no experience with these technologies, and builds on this foundation to provide a comprehensive exploration of a variety of business intelligence technologies.

**Grading:** 20% final exam, 20% reports/papers, 45% written homework, 10% in-class participation, 5% class participation.

**Exam Format:** Objective (True/False, Multiple Choice)

### IDSC 4490 Information Systems Special Topics: Business of Blogs, Communities & Social Networks

**A-F only, 2 credit(s), max credits 10, 5 repeats allowed;**

**Instructor:** Ren, Yuqing

**Description:** Over the past decade, social computing or Web 2.0 technologies, such as blogs, wikis, content management tools, and social networking systems, have moved from being technical curiosities to being tools used in mainstream business practice. Across a variety of industries, firms are increasingly considering how they can use and profit from the development of these technologies. However, their distinctive nature gives rise to many issues different from those encountered when developing and managing traditional information technologies. In this course, we will examine issues related to business use of social computing technologies. Through a combination of readings, discussion, case analyses, and hands-on projects, we will examine (i) the characteristics of key social computing technologies such as blogs, wikis, open source software projects, and social network sites, (ii) the nature of online communities and development processes for creating them, (iii) the business models underlying successful social computing ventures such as MySpace, YouTube, Flickr, and Wikipedia, (iv) the promise and challenges of advertising through online social networks, and (v) approaches that firms can use to deploy, evaluate, and manage these technologies.

### IDSC 6040 Information Technology Management

**A-F only, 2 credit(s); prereq MBA core menu course; Credit will not be granted if credit has been received for: MBA 6240;**

**Instructor:** Subramani, Mani R

**Description:** Student may contact the instructor or department for information.

### IDSC 6040 Information Technology Management

**A-F only, 2 credit(s); prereq MBA core menu course; Credit will not be granted if credit has been received for: MBA 6240;**

**Instructor:** Larson, Eric Christopher

**Description:** Student may contact the instructor or department for information.

### IDSC 6092 Information Technology Management

**A-F only, 2 credit(s); prereq MBA core menu course; Credit will not be granted if credit has been received for: MBA 6240;**

**Instructor:** Kampe, Doug

**Description:** Student may contact the instructor or department for information.

### IDSC 6050 Information Technologies and Solutions

**A-F only, 2 credit(s); prereq Background in information technology or computer science;**

### IDSC 6421 Financial Information Systems and Technology

**A-F only, 2 credit(s); prereq MBA student;**

**Instructor:** Sougstad, Ryan Scott

**Description:** Student may contact the instructor or department for information.

### IDSC 6423 Enterprise Systems

**A-F only, 2 credit(s);**

**Instructor:** Cherny, Norman Lee

**Description:** Student may contact the instructor or department for information.

### IDSC 6490 Advanced Topics in MIS: Business of Blogs, Wikis & Online Social Networks

**A-F only, 2 credit(s), max credits 10, 5 repeats allowed; prereq MBA student;**

**Instructor:** Ren, Yuqing

**Description:** Over the past decade, social computing or Web 2.0 technologies, such as blogs, wikis, content management tools, and social networking systems, have moved from being technical curiosities to being tools used in mainstream business practice. Across a variety of industries, firms are increasingly considering how they can use and profit from the development of these technologies. However, their distinctive nature gives rise to many issues different from those encountered when developing and managing traditional information technologies. In this course, we will examine issues related to business use of social computing technologies. Through a combination of readings, discussion, case analyses, and hands-on projects, we will examine (i) the characteristics of key social computing technologies such as blogs, wikis, open source software projects, and social network sites, (ii) the nature of online communities and development processes for creating them, (iii) the business models underlying successful social computing ventures such as MySpace, YouTube, Flickr, and Wikipedia, (iv) the promise and challenges of advertising through online social networks, and (v) approaches that firms can use to deploy, evaluate, and manage these technologies.

### IDSC 6490 Advanced Topics in MIS: Information Systems Security

**A-F only, 2 credit(s), max credits 10, 5 repeats allowed; prereq MBA student;**

**Instructor:** Schmidt, Matt

**Description:** This course focuses on the concepts and issues of security and data integrity threats that undermine the utility, robustness, and confidence in electronic technologies in facilitating business transactions. The course will focus on understanding the security threats and solutions for everyday business processes. The common governance issues that deal with security and vulnerability management will be presented and discussed. The course will cover risk assessment frameworks, technology management and governance frameworks, and investment strategies to maximize secure business operations.

**Style:** 45% Lecture, 30% Discussion, 10% Student Presentation, 5% Demonstration, 10% Guest Speakers. Please note that percentages are estimates.

**Grading:** 20% reports/papers, 50% quizzes, 20% in-class presentation, 10% class participation.

### IDSC 6490 Advanced Topics in MIS: Business Intelligence

**A-F only, 2 credit(s);**

**Instructor:** Spinna, Ravi

**Description:** Student may contact the instructor or department for information.

### IDSC 8003 Accounting and Information Systems

**A-F only, 4 credit(s); prereq MACc student;**

**Instructor:** Schmidt, Matt

**Description:** Information technology (IT) has transformed the...
collection of financial data, the nature of financial reporting, the auditing business process, and the practice of financial and managerial accounting within the firm. This course provides the student with relevant background on the technology solution, managerial approaches, systems design and assessment methods, and managerial issues that are specific to this area. It also covers digital data sources, procedures related to technical data and financial reporting, the Sarbanes-Oxley reporting requirements, and IS/IT infrastructure and internal control assessment. Students engage in experiential learning and obtain real world exposure via hands-on use of IT Governance frameworks. A course project is required. Style: 50% Lecture, 10% Film/Video, 25% Discussion, 10% Student Presentation. 5% Guest Speakers. Please note that percentages are estimates. Grading: 25% mid exam, 25% final exam, 25% special projects, 25% quizzes.

IDSC 8521 System Development
2 credit(s); prereq Business admin PhD student or instr consent; Instructor: Gupta,Alok Description: Student may contact the instructor or department for information.

IDSC 8801 Research Seminar in Information and Decision Sciences
2 credit(s), max credits 20, 10 repeats allowed; prereq Business Admin PhD student or instr consent; Instructor: Subramani,Mani R Description: Student may contact the instructor or department for information.

ISE 5104 Construction Estimating
A-F only, 2 credit(s); prereq ISE grad student; Instructor: Hilger,Peter Description: Student may contact the instructor or department for information.

ISE 5112 Infrastructure Systems Engineering Management
A-F only, 2 credit(s); prereq ISE grad student; Instructor: Kern,Philip M Description: Student may contact the instructor or department for information.

ISE 5201 Pavement Management Maintenance and Rehabilitation
A-F only, 2 credit(s); prereq ISE grad student; Instructor: Damiani,Damian Description: Student may contact the instructor or department for information.

ISE 5202 Traffic Engineering Management
A-F only, 2 credit(s); prereq ISE student; Instructor: Damiani,Damian Description: Student may contact the instructor or department for information.

ISE 5301 Bridge Management Maintenance and Rehabilitation
A-F only, 2 credit(s); prereq ISE grad student; Instructor: Olson,Steven Arthur Description: Student may contact the instructor or department for information.

ISE 5302 Critical Infrastructure Security and Protection
A-F only, 2 credit(s); prereq ISE grad student or instr consent; Instructor: Amin,Massoud Description: Student may contact the instructor or department for information.

ISE 5402 Storm Water Management
A-F only, 2 credit(s), max credits 10, 1 repeat allowed; prereq ISE grad student; Instructor: Willenbring,Peter Rich Description: Student may contact the instructor or department for information.

ISE 5501 Geographic Information Systems
A-F only, 2 credit(s); prereq ISE student; Instructor: Henry,Bradford Description: Student may contact the instructor or department for information.

ISE 6105 Capstone Project
A-F only, 1-2 credit(s), max credits 3; prereq ISE student; Instructor: Voller,Vaughan Richard Description: Student may contact the instructor or department for information.

Innovation Studies
20 Classroom Office Building

IS 5002 Final Project for Innovation Studies
A-F only, 1-4 credit(s), max credits 4, 4 repeats allowed; prereq Completion of IS requirements, dept consent; Instructor: Harkins,Arthur M Description: Student may contact the instructor or department for information.

IS 5100 Innovation Studies Seminar: Leadership and Change
A-F only, 3 credit(s), max credits 24, 24 repeats allowed; prereq dept consent; Instructor: Crosby,Barbara C Description: Change is often built into definitions of leadership, and certainly lots of scholars and practitioners have written about how leaders can foster change in their organizations or communities. As the United States and other countries move more fully into the information economy, understanding the links between leadership and change takes on increased urgency. Leaders will need conceptual tools and practical skills to promote innovative organizations that thrive in and contribute to an innovative society. Accordingly, this seminar will examine models of change and models of leadership and investigate how leaders can promote personal, organizational and societal change. Case studies and action research will be emphasized. An important class product will be a framework for leadership and change in an innovation society. At the end of each class session, two or three learners will be responsible for summarizing and synthesizing the evening’s conversation in order to add to the framework. Individual Learner Outcomes: 1. Able to define and analyze leadership from several perspectives 2. Able to identify and explain personal-level models of change 3. Able to identify and explain organizational-level models of change 4. Able to identify and explain societal-level models of change 5. Able to apply models of change to cases 6. Able to write a case study 7. Able to explain role of leadership and change in an innovation society 8. Able to practice action research 9. Able to apply systems thinking to a case 10. Better equipped to build learning communities Collective Learner Outcomes: 1. Build framework for leadership and change in an innovation society 2. Build learning community 3. Plan an innovation project Written Assignments: 1. Reflections? Each learner is responsible for posting a written reflection on assigned readings five times during the semester on the course website. 2. Comments? Each learner is expected to post one thoughtful query (conversation starter) and four responses to other learners? queries five times during the semester. 3. Working Paper? 15-page case study or scholarly paper documenting action research related to the course. Also acceptable is a shorter teaching case and supporting notes and references. Grading: 35% reports/papers, 25% reflection paper, 30% class participation.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor/Notes</th>
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<tbody>
<tr>
<td>IOFT 1311</td>
<td>Engineering Basics</td>
<td>A-F only, 2 credit(s); Instructor: Imbertson, Paul Jay</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>IOFT 1312</td>
<td>Exploring Careers in Science and Engineering</td>
<td>2 credit(s); Instructor: Hinze, Katy M</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<td>INS 4100</td>
<td>Corporate Risk Management</td>
<td>2 credit(s); Instructor: STAFF</td>
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<td>Description: Corporate Risk Management is the process of assessing, controlling,</td>
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<td>financing and monitoring risks to increase value for all stakeholders. Business</td>
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<td>practices and theory are applied to treat human resource risks, financial risks,</td>
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<td>property, liability, and workers compensation risks, with risk control and risk</td>
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<td>financing tools, including insurance. Students learn to serve as consultants</td>
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<td>applying the risk management process to a live company. Practicing risk managers</td>
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<td>address the class and assist students in the consulting process.</td>
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<td>Style: 70% Lecture, 15% Discussion, 15% Student Presentation.</td>
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<td>Grading: 50% quizzes, 30% in-class presentation, 20% class participation.</td>
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<td>Exam Format: multiple choice and short essays.</td>
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<td>INS 4200</td>
<td>Insurance Theory and Practice</td>
<td>2 credit(s); Instructor: STAFF</td>
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<td>Description: Risk theory is applied to practices in liability, property, and</td>
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<td>workers compensation insurance. Insurance marketing, pricing, underwriting, and</td>
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<td>claims administration, with adverse selection and moral hazard effects. Public</td>
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<td>policy issues of tort versus no-fault compensation systems. Self-insurance and</td>
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<td>integrated risk financing methods. Students learn to serve as consultants</td>
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<td>applying the insurance practices in a live company. Practicing insurance</td>
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<td>professionals and faculty address the class.</td>
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<td>Style: 70% Lecture, 15% Discussion, 15% Student Presentation.</td>
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<td>Grading: 10% special projects, 50% quizzes, 20% class participation.</td>
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<td>Exam Format: multiple choice and essay.</td>
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<td>INS 4201</td>
<td>Personal Financial Management</td>
<td>2 credit(s); Instructor: STAFF</td>
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<td>Description: Guest industry practitioners present the concepts and principles of</td>
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<td>personal financial planning, and you develop your own plan using computer software.</td>
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<td>Your plan and practitioners cover steps in the planning process. Financial</td>
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<td>statements, expenditure and credit/debt management, time value of money, insurance</td>
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<td>(disability, health, liability, long-term care), investing and portfolio allocation,</td>
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<td>tax reduction, retirement plans and estate planning. Standards of professional</td>
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<td>conduct and regulation of financial planners are reviewed.</td>
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<td>Style: 70% Lecture, 30% Discussion.</td>
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<td>Grading: 60% reports/papers, 25% quizzes, 15% class participation.</td>
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<td>Exam Format: multiple choice and essay.</td>
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<tr>
<td>ICP 3000</td>
<td>Career Skills in the Professional Environment</td>
<td>2 credit(s); Instructor: Bonderson, Lori</td>
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<td>Description: This course is designed to introduce you to the nuts and bolts of</td>
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<td>job search strategies, including resume writing, interviewing, working, and the</td>
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<td>use of technology and the Internet in job seeking.</td>
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<td>Grading: 90% written homework. 10% Online participation</td>
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<tr>
<td>ICP 3001W</td>
<td>Introduction to Multidisciplinary Studies</td>
<td>A-F only, 3 credit(s); Instructor: Borowicz, Josh</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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ICP 3001W Introduction to Multidisciplinary Studies
A-F only, 3 credit(s); prereq Admitted to ICP Multidisciplinary Studies; Meets CLE req of Writing

- **Intensive:**
- **Instructor:** Moon,Karen
- **Description:** This course is designed to help returning students re-acclimate to a university environment, specifically the University of Minnesota, and select a multidisciplinary program of study in the Inter-College Program. Through readings, discussion, and writing, ICP 3001W will invite you to think about your own identity, write an educational autobiography, and create a curriculum to meet your goals. You will learn to view personal identity through a variety of lenses as we read authors from an array of disciplines. Your writings will be self-reflective and will allow you to develop your investigative and evaluative abilities as you consider your future at the University.

ICP 3093 Directed Study
1-15 credit(s), max credits 15, 1 repeat allowed; prereq instr consent;
- **Instructor:** STAFF
- **Description:**

**Interdepartmental Study**
135 Johnston Hall

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
- **Instructor:** Bolte,Mia M
- **Description:** Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A $20 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 pages/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
- **Instructor:** Halverson,Joyce A
- **Description:** Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you'll enjoy. We'll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A $20 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 pages/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
- **Instructor:** Whitney,Angie Schmidt
- **Description:** Wondering what you'll do after graduation? This course provides a practical introduction to integrating career-search strategies with your talents, values, interests and experience. Emphasis is on understanding the marketplace, online research, strategic resume writing, networking, and interviewing. A $40 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 pages/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
- **Instructor:** Untiedt PhD,L.P.Stephania Ann
- **Description:** Wondering what you'll do after graduation? This course provides a practical introduction to integrating career-search strategies with your talents, values, interests and experience. Emphasis is on understanding the marketplace, online research, strategic resume writing, networking, and interviewing. A $40 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 pages/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
- **Instructor:** Timmins,Paul
- **Description:** Are you undecided about which major to choose? Or are you wondering what careers you can pursue with your major? In this class you'll learn about the foundations of career planning in relation to your interests. The course covers two main subjects: * Self-Assessment: Learn more about your skills, values, interests, and personality. * Exploring Options: Learn about majors available at the U, and how you can use your major to find a career you’ll enjoy. We’ll also introduce you to many of the resources available on campus, and help you explore the ways internships, community service, work experience, and travel can impact your future success. A $20 fee will be charged for career assessment inventories. Grading/Workload: Grades are determined based on student participation in class, 3-4 papers/projects, and other reaction papers as determined by the instructor. There are no exams in this course. An average of 25 pages of reading will be required each week.

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
- **Instructor:** Whitney,Angie Schmidt
- **Description:** Thinking about law school? This course will provide information about law school and the legal profession. The course includes tours of the four MN law schools (students are responsible for transportation, although carpool and bus
options are discussed in class). Students will learn about the application process, write a resume and personal statement, and conduct informational interviews to help determine if law school is a strong choice. This course is designed primarily for students still considering law school but have not started the application process.

**ID 3551 Community Leadership Intern Seminar: Leadership, Ethics, and Community Building in Nonprofits**
- **A-F only, 6 credit(s); prereq instr consent**
- **Instructor:** Moors, David F
- **Description:** The Community Leadership Intern Program combines real-work experience at a nonprofit, foundation, or corporate community relations department with classroom learning. You must apply in the fall to be accepted into the program and then interview with at least three potential intern sites. You will then be matched with an intern site in December. The internship will begin the first week of the Spring Semester and last 15 weeks. You will be expected to work 12-15 hours/week. Some examples of intern sites have been The Minneapolis Foundation, TCF Foundation, Habitat for Humanity, YMCA, St. Anna's, ARC, The National Park Service and many others. The focus of the academic work is on developing ethical leadership skills. The course will also cover community building and professional development. During the class you will have the opportunity to hear from professionals in their field of expertise. The class will also engage is group discussion to reflect on experiences and how they challenge each person to further their knowledge and capacity to make a difference in the community.
- **Style:** 30% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.
- **Grading:** 20% special projects, 20% attendance, 30% reflection paper, 10% in-class presentation, 20% class participation.

**ID 3565 Environment and Agriculture: Sustainable Food Systems**
- **A-F only, 4-6 credit(s), max credits 6, 1 repeat allowed**
- **Instructor:** Holliday, David Wallace
- **Description:** Student may contact the instructor or department for information.

**ID 3571 Metro Urban Studies Term: Contested Theories of Poverty, Inequality, and Social Change**
- **4 credit(s); prereq Concurrent registration is required (or allowed in 3572, 3573, dept consent**
- **Instructor:** Holliday, David Wallace
- **Description:** In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basic of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. This is an 8-credit internship in the Twin Cities. Concurrent enrollment in ID 3571 and ID 3573 is required. Contact the CCLC (612-626-2044) for more information.

**ID 3572 Metro Urban Studies Term: Social Policy and Anti-Poverty Strategies in Theory and Practice**
- **4 credit(s); prereq Concurrent registration is required (or allowed in 3571, 3573, dept consent**
- **Instructor:** Holliday, David Wallace
- **Description:** In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basic of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. Concurrent enrollment in ID 3571 and ID 3573 is required. Contact the CCLC (612-626-2044) for more information.

**ID 3573 HECUA Off-Campus Study Program: Metro Urban Studies Term Internship Seminar**
- **8 credit(s); prereq concurrent enrollment in 3571, 3572, dept consent; contact CCLC, 345 Fraser, 626-2044**
- **Instructor:** Holliday, David Wallace
- **Description:** In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basic of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. This is an 8-credit internship in the Twin Cities. Concurrent enrollment in ID 3571 and ID 3573 is required. Contact the CCLC (612-626-2044) for more information.

**ID 3581 City Arts: Creating Social Change - Art and Culture in Political, Social, Historical Context**
- **4 credit(s); prereq Concurrent registration is required (or allowed) in 3582, 3583, dept consent**
- **Instructor:** Holliday, David Wallace
- **Description:** In this semester-long program that takes place off-campus in the Twin Cities, the arts are embraced as essential tools for civic engagement, participatory democracy and social justice. Through classroom seminars, field visits and professional internships, students explore how art and culture impact communities and how creative work (i.e. performance, writing, visual art, music and interpretation) can address and illuminate pressing issues. Social and cultural identity, democracy and power structures are just some of the issues students grapple with through the lens of art, culture and social change. In the learning process, students meet with a wide variety of local artists, educators and arts advocates in addition to attending performances, films and installations. Concurrent registration in ID 3582 and ID 3583 is required. Contact the Career and Community Learning Center (612-626-2044) for more information.

**ID 3582 City Arts: Arts Praxis - Social Justice Theory and Practice in the Field**
- **4 credit(s); prereq Concurrent registration is required (or allowed) in 3581, 3583, dept consent**
- **Instructor:** Holliday, David Wallace
- **Description:** In this semester-long program that takes place off-campus in the Twin Cities, the arts are embraced as essential tools for civic engagement, participatory democracy and social justice. Through classroom seminars, field visits and professional internships, students explore how art and culture impact communities and how creative work (i.e. performance, writing, visual art, music and interpretation) can address and illuminate pressing issues. Social and cultural identity, democracy and power structures are just some of the issues students grapple with through the lens of art, culture and social change. In the learning process, students meet with a wide variety of local artists, educators and arts advocates in addition to attending performances, films and installations. Concurrent registration in ID 3582 and ID 3583 is required. Contact the Career and Community Learning Center (612-626-2044) for more information.

**ID 3583 HECUA Off-Campus Program: City Arts Internship Seminar**
- **8 credit(s); prereq concurrent enrollment 3581, 3582, dept consent; contact CCLC, 345 Fraser, 626-2044**
- **Instructor:** Holliday, David Wallace
- **Description:** In this semester-long program that takes place off-campus in the Twin Cities, the arts are embraced as essential tools for civic engagement, participatory democracy and social justice. Through classroom seminars, field visits and professional internships, students explore how art and culture impact communities and how creative work (i.e. performance, writing, visual art, music and interpretation) can address and illuminate pressing issues. Social and cultural identity, democracy and power structures are just some of the issues students grapple with through the lens of art, culture and social change. In the learning process, students meet with a wide variety of local artists, educators and arts advocates in addition to attending performances, films and installations. Concurrent registration in ID 3582 and ID 3583 is required. Contact the Career and Community Learning Center (612-626-2044) for more information.
pressing issues. Social and cultural identity, democracy and power structures are just some of the issues students grapple with through the lens of art, culture and social change. In the learning process, students meet with a wide variety of local artists, educators and arts advocates in addition to attending performances, films and installations. This course is an internship with an organization in the Twin Cities. Concurrent registration in ID 3582 and ID 3583 is required. Contact the Career and Community Learning Center (612-626-2044) for more information.

ID 3591 HECUA Off-Campus Study Program: Environmental Sustainability: Adaptive Ecosystem Management
A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3592, Concurrent registration is required (or allowed) in 3593, Concurrent registration is required (or allowed) in 3594, dept consent ;
Instructor: Holliday,David Wallace
Description: Students will gain a practical understanding of the ecological and physical processes that underlie environmental degradation. This course includes both classroom and field work. All majors are welcome! Concurrent registration in ID 3592, 3593, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3592 HECUA Off-Campus Study Program: Environmental Sustainability: Dimensions of Environmental Change
A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3591, Concurrent registration is required (or allowed) in 3593, Concurrent registration is required (or allowed) in 3594, dept consent ;
Instructor: Holliday,David Wallace
Description: All majors are welcome! Students explore how humans understand environmental sustainability, how current power dynamics and trends towards a global free market impact local efforts to promote sustainability, and how community and social movements are developing alternative visions of environmental sustainability. This course includes both classroom and field work. Concurrent registration in ID 3591, 3593, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3593 HECUA Off-Campus Study Program in Sustainability: Field Methods Research and Investigation
A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3591, Concurrent registration is required (or allowed) in 3592, 3594, dept consent ;
Instructor: Holliday,David Wallace
Description: All majors are welcome! In this component of the program, students have an opportunity to work with scientists and community members to conduct publishable research. Concurrent registration in ID 3591, 3592, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3594 HECUA Off-Campus Study Program: Environmental Sustainability, Internship
A-F only, 4 credit(s); prereq Concurrent registration is required (or allowed) in 3591, Concurrent registration is required (or allowed) in 3592, Concurrent registration is required (or allowed) in 3593, dept consent ;
Instructor: Holliday,David Wallace
Description: All majors are welcome! This 15-hour per week internship gives students an opportunity to interact and work with one of the most active networks of environmental organizations in the country. Concurrent registration in ID 3591, 3592, & 3593 is required. Contact the CCLC (612-626-2044) for more information.

ID 3901 Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;
Instructor: Siems,Monica Lee
Description: Student may contact the instructor or department for information.

ID 3901 Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;
Instructor: Peacock,Katie
Description: Student may contact the instructor or department for information.

ID 3901 Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;
Instructor: Hart,Laurel Elisabe
Description: Student may contact the instructor or department for information.

ID 3901 Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;
Instructor: Dammer,Hess,Laura Ann
Description: Student may contact the instructor or department for information.

ID 3993 Directed Study
1-4 credit(s), max credits 8, 8 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Hart,Laurel Elisabe
Description: Student may contact the instructor or department for information.

IBUS 3010 International Business Topics
A-F only, 4 credit(s), max credits 12, 3 repeats allowed; prereq Consent of Carlson International Programs;
Instructor: Spruth,Steve
Description: Student may contact the instructor or department for information.

IBUS 3021 Human Resource Management and Industrial Relations
3 credit(s); prereq ECON 1101, ECON 1102, PSY 1001 ;
Instructor: Benraouane,Sid A.
Description: Student may contact the instructor or department for information.

IBUS 4090 Corporate Strategy in Central and Eastern Europe
A-F only, 4 credit(s); prereq At least two of [FINA 3001 or FINA 4641 or IDSC 3001 or IDSC 4153 or MGM 3001 or MGM 3014 or MGM 3040 or MGM 3070 or MGM 4005 or MGM 4070 or MGM 5019 or MKTG 3001 or MKTG 4020 or MKTG 4040 or MKTG 4070 or MKTG 4080 or OMS 3001 or OMS 3056], Carlson School International Programs consent; Credit will not be granted if credit has been received for: IBUS 5090;
Instructor: Bartlett,David Louis
Description: Student may contact the instructor or department for information.

IBUS 5090 Corporate Strategy in Central and Eastern Europe
A-F only, 4 credit(s); prereq At least two of [FINA 3001 or FINA 4641 or IDSC 3001 or IDSC 4153 or MGM 3001 or MGM 3014 or MGM 3040 or MGM 3070 or MGM 4005 or MGM 4070 or MGM 5019 or MKTG 3001 or MKTG 4020 or MKTG 4040 or MKTG 4070 or MKTG 4080 or OMS 3001 or OMS 3056], Carlson School International Programs consent; Credit will not be granted if credit has been received for: IBUS 4090;
ITAL 1001 Beginning Italian  
5 credit(s); Credit will not be granted if credit has been received for: ITAL 4001;  
Instructor: STAFF  
Description: Italian 1001 introduces students to the language and culture of Italy. Class time is spent on presentations of new concepts and on continual use of material already taught. Students work individually, in pairs and in groups. They learn to read, write, speak and understand Italian. They view Italian films. Integral parts of this course will be the online assignments (Quia workbook and laboratory manuals) that students are required to do at home and the cultural reading text Stelle, perle e mistero. By the end of the first semester, students can communicate in a number of real life situations and are becoming comfortable with the present and the past tenses. Students who pass 1002 with a grade of "C-" or higher can then move on to Italian 1003.  
Grading: 15% final exam, 65% quizzes, 5% class participation, 15% other evaluation. oral presentations  
Exam Format: Short answer; fill in the blank, true/false

ITAL 1002 Beginning Italian  
5 credit(s); Credit will not be granted if credit has been received for: ITAL 4002;  
Instructor: STAFF  
Description: Italian 1002 is the second semester of beginning Italian: students must have completed Italian 1001 with a grade of "C-" or better in order to take Italian 1002. Italian 1002 introduces students to the language and culture of Italy. Class time is spent on presentations of new concepts and on continual use of material already taught. Students work individually, in pairs and in groups. They learn to read, write, speak and understand Italian. They view Italian films. Integral parts of this course will be the online assignments (Quia workbook and laboratory manuals) that students are required to do at home and the cultural reading text Stelle, perle e mistero. By the end of the second semester, students can communicate in a number of real life situations and are becoming comfortable with the present and the past tenses. Students who pass 1002 with a grade of "C-" or higher can then move on to Italian 1003.  
Grading: 15% final exam, 65% quizzes, 5% class participation, 15% other evaluation. oral presentations  
Exam Format: Short answer; fill in the blank, true/false

ITAL 1003 Intermediate Italian  
5 credit(s); prereq 1001-1002; Credit will not be granted if credit has been received for: ITAL 4003;  
Instructor: STAFF  
Description: Italian 1003 is the third semester course of Italian language and culture. (Students must have completed the equivalent of a year of university level Italian instruction before taking this course.) Students concentrate on mastering elements of grammar and on increasing their active vocabularies. They continue to read, write, speak and listen to current Italian. Each student chooses a topic for a cultural presentation, which is both written and spoken. Italian films are integrated into the program. An integral part of this course is reading the text, Pinocchio. The grade is based on daily participation and homework performance, frequent quizzes, oral exams, compositions, cultural presentation and the final exam. At the end of the third semester, students who pass with a grade of "C-" or higher are ready to move on to Italian 1004 or to study in Italy.  
Grading: 10% final exam, 70% quizzes, 5% class participation, 15% other evaluation. oral exam  
Exam Format: essay, short answer, fill-in blank, true/false

ITAL 1004 Intermediate Italian  
5 credit(s); prereq 1001, 1002, 1003; Credit will not be granted if credit has been received for: ITAL 4004;  
Instructor: STAFF  
Description: Italian 1004 is the fourth semester course of Italian language and culture. (Students must have completed the equivalent of one and a half years of university level Italian instruction before taking this course.) Having learned all the basic grammar concepts students now concentrate on mastering these elements and on increasing their active vocabularies. They continue to read, write, speak and listen to Italian. Each student chooses a topic for a cultural presentation, which is both written and spoken. Italian films are integrated into the program. At the end of the fourth semester, students who pass with a grade of "C-" or higher are ready to move on to Italian 3015 or to study in Italy.  
Grading: 10% final exam, 70% quizzes, 5% class participation, 15% other evaluation. oral exam  
Exam Format: essay, short answer, fill-in blank, true/false, various presentations

ITAL 3201 Reading Italian Texts: Poetics, Rhetoric, Theory  
3 credit(s), max credits 9, 3 repeats allowed; prereq 3015; Credit will not be granted if credit has been received for: ITAL 5201;  
Instructor: Ovan, Sabrina  
Description: L’ITALIA GLOBALE Questo corso analizzerà il rapido cambiamento della società Italiana negli anni recenti, e
ITAL 4001 Beginning Italian
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ITAL 1001;
Instructor: Lavecchia, Ornella
Description: Student may contact the instructor or department for information.

ITAL 4003 Intermediate Italian
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ITAL 1003;
Instructor: Barbieri, Monica
Description: Student may contact the instructor or department for information.

ITAL 4004 Intermediate Italian
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ITAL 1004;
Instructor: Rider, Kathleen Marie
Description: Student may contact the instructor or department for information.

ITAL 4970 Directed Readings
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

ITAL 5640 Topics in Italian Studies
3 credit(s), max credits 12, 4 repeats allowed; prereq Ital 3015;
Instructor: Ovan, Sabrina
Description: Student may contact the instructor or department for information.

ITAL 5970 Directed Readings
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

JPN 3022 Intermediate Japanese
5 credit(s); prereq 3021 or instr consent; Credit will not be granted if credit has been received for: JPN 4004;
Instructor: Emmett, Keiko
Description: This course is the second of a two-semester sequence of Intermediate Japanese. The course will cover Lessons 7 through 12 of Genki (Refer to COURSE MATERIALS on the next page). The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the intermediate level, as well as culture-specific skills (do's and don'ts). The items that will be covered in this term include, but are not limited to: 1. Describing the condition of an occurrence, 2. Speaking respectfully, 3. Explaining what you do not know, 4. Talking about bad experiences or events, and 5. Giving orders. It is expected that, by the end of this semester, students will be able to use the above functions to participate in formal, professional conversation. Students also will read/write short stories, expository writings, and formal letters. 78 kanji characters will be introduced in addition to the 224 characters learned in the previous lessons.
Style: 40% Lecture, 60% Discussion.
Grading: 7% special projects, 18% quizzes, 18% written homework, 40% additional semester exams, 7% attendance, 2% in-class presentation, 8% other evaluation. There are no mid and final exams. "Additional Semester Exams" consist of 5 chapter exams (written) and 2 oral exams.
Exam Format: Five written exams (multiple-choice, filling-in the blank, short-answer) and 2 ten-minute oral exams.

JPN 3032 Third-Year Japanese
4 credit(s); prereq 3031 or instr consent;
Instructor: Tazawa, Kenichi
Description: This course is the second of a two-semester sequence of Third-year Japanese. The course will cover Lessons 8, 9, 11, 12, and 13 of An Integrated Approach to Intermediate Japanese (Refer to COURSE MATERIALS on the next page). The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the intermediate-high level as well as strategies of carrying on a conversation. The items that will be covered in this semester include, but are not limited to: 1. Looking for a job, 2. Giving and receiving, 3. Complaining and apologizing, 4. Describing health conditions, and 5. Narrating. Students will read short essays and pieces of expository writing as well as excerpts from authentic materials (i.e., materials written for native speakers of Japanese). In terms of kanji, there are 89 characters that the students are expected to be able to write in addition to the 367 characters learned in the lower courses. In addition, there are approximately 145 characters meant for recognition only.

JPN 3032 Third-Year Japanese
4 credit(s); prereq 3031 or instr consent;
Instructor: Uchida, Ayumi
Description: This course is the second of a two-semester sequence of Third-year Japanese. The course will cover Lessons 8, 9, 11, 12, and 13 of An Integrated Approach to Intermediate Japanese (Refer to COURSE MATERIALS on the next page). The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

Jewish Studies
Center for Jewish Studies

JWST 3521W History of the Holocaust
3 credit(s); Credit will not be granted if credit has been received for: RELS 3521W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Meng, Michael L
Description: Before the outbreak of World War II in 1939, the Jewish population of Europe was the largest in the world with over nine million Jews. In the span of a mere few years, it became one of the smallest in the wake of a massive genocide of European Jewry. By 1945, the Nazis had murdered nearly two out of every three Jews in Europe. This course seeks to deal with questions that, some sixty years after what is now known as the Holocaust, still continue to perplex: Why did the genocide happen in Europe and between the years 1941-1945? Why did Germany, a country that at 1900 stood at the height of cultural, economic, and political power, only three decades later turn into a catastrophic dictatorship of racism, war, and mass murder? Why did the Nazis see Jews as the supreme racial enemy, while also targeting Poles, Ukrainians, Soviets, homosexuals, the Roma, and the disabled? How did non-Jews living in the Nazi occupied areas of Europe react to the mass murder that was unfolding before their eyes? What were the various responses of the victims to their fate? What was everyday life like in the ghettos and the death camps? How were some Jews able to survive the genocide? This course will discuss these central questions from the perspective of Europe as a whole, but special emphasis will be given to the countries of Germany and Poland. Germany is a natural choice as the country that designed, implemented, and carried out the Final Solution, and Poland is selected because it became the geographic epicenter of where the Holocaust took place after the Nazi invasion and occupation of the country in 1939.
Style: 60% Lecture, 40% Discussion.

JWST 3631 Jewish Writers and Rebels in German, Austrian, and American Culture
3 credit(s); Credit will not be granted if credit has been received for: GER 3631; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;
Instructor: Abramov, Tamar
Description: This course will investigate the fruitful yet traumatic encounter between Europe and America in the works of German emigres to the United States in the twenties, thirties and forties. In reading these works we will develop an elaborate thinking of the relationship of Europe to America, the old to the new. We will focus on the way these works articulate a historical encounter between European/metaphysical thinking (and its break) and the event of America, both redemptive and disastrous to its European counterpart. We will also consider the way this encounter is embodied in these thinkers’ life journeys and their thought in and around the trauma of exile. Readings and screenings include: Arendt, Adorno, Brecht, Lubitsch, Wilder, Mann, Strauss, Jonas and others. A short midterm paper (5 pgs) and a final longer one (10-12 pgs).

JWST 3900 Topics: Jewish Studies: Tony Kushner in America
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Katz, Judith
Description: Tony Kushner’s epic play, Angels in America, took the politics of the North American AIDS epidemic head on. All of his work, including essays as well as plays such as Caroline or Change; Homebody/Kabul; and even his translation of the Yiddish classic, The Dybbuk, examines issues of class, race, and homophobia. All of Tony Kushner’s work advocates strongly for social justice and social change. This course aims to examine Kushner’s writing in both a historical and artistic context. To this end we will explore work by writers who came before him, including James Baldwin, Lorraine Hansberry, Arthur Miller, Megan Terry, and Larry Kramer as well as his contemporaries, such as Anna Daevere Smith, Paula Vogel, and Susan Lori Parks, as well as the work of Kushner himself.
Style: 5% Lecture, 15% Film/Video, 70% Discussion.
Grading: 75% reports/papers, 25% class participation.

JWST 3900 Topics: Jewish Studies: Women & the Holocaust; Gender, Memory, Representation
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Baer, Elizabeth R
Description: Student may contact the instructor or department for information.

JWST 3900 Topics: Jewish Studies
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Cohen, Sara Jo
Description: Student may contact the instructor or department for information.

JWST 3900 Topics: Jewish Studies: Holy Places & Conflict in Israel & Palestine
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Reiter, Yitzhak Nissan
Description: Student may contact the instructor or department for information.

JWST 3900 Topics: Jewish Studies: Israel and Its Arab Minority
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Reiter, Yitzhak Nissan
Description: Student may contact the instructor or department for information.

JWST 3900 Topics: Jewish Studies: Jews of the Medit. and Europe, 7th-17th Centuries
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Schroeter, Daniel J
Description: The Jewish Diaspora that emerged in late antiquity and the early Middle Ages was remarkably diverse, while at the same time Jews shared common religious and cultural traditions. This course explores how Jews were shaped by the societies and cultures of the Islamic Mediterranean World and Christian Europe from 700 to 1700, while maintaining a distinctive identity. Under the dominant religions of Islam and Christianity, Jews developed autonomous religious and cultural institutions and communities, which frequently changed as Jews were influenced by and adapted to their cultural surroundings and changing historical circumstances. The relationship between diverse Jewish communities throughout the Muslim Mediterranean and Christian Europe is explored. The connections between communities were created and maintained through trade, travel, and the exchange of rabbinical culture and Jewish religious authority across political boundaries. While Jewish status differed under Muslim and Christian rule, this course explores how the experience of Jews was influenced by changing local circumstances, migrations, expulsions, violence, persecution, and resettlement in new locations with the expansion of trade routes and political change in both the Islamic and Christian worlds.
Style: 80% Lecture, 20% Discussion.
Grading: 20% mid exam, 35% final exam, 30% reports/papers, 15% class participation.

JWST 3900 Topics: Jewish Studies: Israel & Palestine
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Baer, Elizabeth R
Description: Student may contact the instructor or department for information.

JWST 4001W Final Project, Writing Intensive
A-F only, 1 credit(s); prerequisite concurrent enrollment 5xxx, JWSt major, permission of dir of undergrad studies; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

JWST 5513 Scripture and Interpretation
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Levinson PhD, Bernard M
Description: This seminar investigates the idea of divine revelation and its impact upon religion and literature. It shows
JOUR 1001 Introduction to Mass Communication
A-F only, 3 credit(s); prereq Pre-jour or non-jour major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; Instructor: Pedelty,Mark Holmes
Description: This course introduces students to media institutions, cultures, and practices. A democratic society requires knowledgeable consumers and producers of media. Students will gain knowledge by reading about media history, studying contemporary communication systems, and researching the content, functions, and influence of media. Grades will be based on quizzes, tests, and a research project that results in a class presentation and written report.
Style: 25% Lecture, 20% Film/Video, 20% Discussion, 30% Student Presentation, 5% Guest Speakers.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% quizzes, 20% in-class presentation.

JOUR 1001 Introduction to Mass Communication
A-F only, 3 credit(s); prereq Pre-jour or non-jour major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; Instructor: Brady,Miranda Jean
Description: Student may contact the instructor or department for information.

JOUR 1001 Introduction to Mass Communication
A-F only, 3 credit(s); prereq Pre-jour or non-jour major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; Instructor: Thiel-Stern,Shayla
Description: Student may contact the instructor or department for information.

JOUR 1005 Freshman Seminar
A-F only, 3 credit(s); prereq freshman; Instructor: Southwell,Brian G
Description: Student may contact the instructor or department for information.

JOUR 3004V Honors: Information for Mass Communication
A-F only, 3 credit(s); prereq Honors, [jour major or jour minor or approved IDIM major or ICP major or BIS major]; Meets CLE req of Writing Intensive; Instructor: Dell’Orto,Giovanna
Description: Student may contact the instructor or department for information.

JOUR 3004W Information for Mass Communication
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive; Instructor: Hansen,Kathleen Ann
Description: Student may contact the instructor or department for information.
JOUR 3004W Information for Mass Communication
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;
Instructor: Paul, Nora
Description: This course introduces the concept of the information strategy as it applies to mass communication. The strategies, techniques and resources discussed will apply to any type of mass communication message production; they will also apply to academic work such as term paper and project production. We are most concerned with the process of information gathering, evaluation and use. A case study format will be used to study this process in depth throughout the semester. The case study topic for this semester changes each semester and draws from current news issues for which examples abound in advertising, news and public relations. WebCT is used for all the course materials.
Style: 66% Lecture, 34% Discussion.
Grading: 16% mid exam, 16% final exam, 30% special projects, 12% class participation, 26% problem solving.
Exam Format: Multiple choice and true / false

JOUR 3005 Mass Media Effects
A-F only, 3 credit(s); prereq Non-jour major or [jour major, course approval in program plan] or [pre-jour, adviser approval];
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

JOUR 3006 Visual Communication
A-F only, 3 credit(s); prereq Jour major or jour minor or design comm premajor or design comm major or graphic design premajor or graphic design major or approved IDIM major or ICP major or BIS major or instr consent;
Instructor: Schwartz, Dona
Description: Student may contact the instructor or department for information.

JOUR 3007 The Media in American History and Law: Case Studies
A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Historical Perspective Core;
Instructor: Roberts, Nancy Lee
Description: Student may contact the instructor or department for information.

JOUR 3008 Mass Communication Processes and Structure
A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
Instructor: Schneweis, Adina A.G.
Description: This course examines aspects of mass communication systems - both as processes and in their structures. As a "contextual course," the class explores (a) how media content is produced within media organizations, (b) what politico-economic, legal and ethical, and socio-cultural influences affect media organizations and media content, and (c) how media affect society. In order to do this, mass communication theories will be reviewed, to allow for a critical outlook at media affect media organizations and media content, and (c) how media content is produced within media organizations, (b) what
design premajor or design comm major or graphic design premajor or graphic design major or approved IDIM major or ICP major or BIS major or instr consent;
Style: 60% Lecture, 40% Discussion.
Grading: 20% final exam, 50% reports/papers, 20% in-class presentation, 10% other evaluation. class participation.
Exam Format: short answer

JOUR 3010 News Reporting and Writing
A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;
Instructor: Ison, Christopher John
Description: This is a writing-intensive course that teaches students the fundamentals of news writing and gets them started learning basic reporting skills. Students will learn how to write basic news stories using Associated Press style. They’ll move from writing hard-news leads to short news stories to slightly longer stories. They’ll learn how to identify the most important information for a story, organize the information and write descriptively and with clarity. By the end of the semester, they’ll be finding some stories on their own, conducting interviews and other research. Class discussion will address news judgment, accuracy, interviewing and source development, ethics, public records law, in-depth reporting skills and other issues.
Style: 25% Lecture, 25% Discussion, 50% Laboratory.
Grading: 25% reports/papers, 25% quizzes, 50% laboratory evaluation.

JOUR 3101 News Reporting and Writing
A-F only, 3 credit(s); prereq [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or jour minor or approved IDIM major or ICP major or BIS major], typing skill; Credit will not be granted if credit has been received for: JOUR 3101H;
Instructor: Golden, Gayle Celeste
Description: This course teaches the basic skills needed to report and write news. The course emphasizes the ability to recognize news values as well as to write clearly, concisely, accurately and in correct Associated Press style about news events. Students will write a variety of stories, including spot news, obituaries, advances and news features. Skills taught include interviewing, attributing, using public records, setting stories, in context and applying numbers correctly to tell stories. The course is for professional journalism students at the start of their major course work. Students also create and maintain online news logs to summarize, compare and analyze news coverage.
Style: 60% Lecture, 40% Discussion.
Grading: 5% mid exam, 70% reports/papers, 10% quizzes, 15% class participation.
Exam Format: short answer

JOUR 3102 Visual Journalism
A-F only, 3 credit(s); prereq [3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Moore, Jennifer E
Description: Student may contact the instructor or department for information.

JOUR 3121 Intermediate News Reporting
A-F only, 3 credit(s); prereq [3004W or 3004V], 3101, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Ison, Christopher John
Description: This is a class tailored to undergraduate journalism majors in the news/editorial sequence. Students will learn how to report on the people, events and institutions that make up the most fundamental news beats in any newsroom. They’ll learn by doing - hitting the streets to find news stories at city hall, the police department, the courthouse, etc. They’ll need to apply what they learned in Journalism 3101 (Newswriting) and the additional writing skills they learn during the semester in this class. The class will emphasize how to find and use public records for news stories, how to fend and interview sources and how to organize information so that stories are interesting and understandable to readers. The instructor will emphasize class discussion to learn about reporting methods, ethics and news judgment. Students will be required to read the newspaper every day and be able to think critically and discuss the news in class. By the end of the semester, students will understand how newsrooms work, and how good reporters produce accurate, high-quality stories for print and broadcast.
Style: 40% Lecture, 40% Discussion. TV news viewing, guest speakers, in-class exercises, etc.
Grading: 100% reports/papers. Occasional quizzes, as well as attendance and class participation could factor in to grades
**JOUR 3173W Magazine Writing**
A-F only, 3 credit(s); prerequisite 3004W, 3101, (jour major or approved IDIM major or ICP major or BIS major); IDL sections are open to non-majors; prerequisites do not apply to IDL sections; Meets CLE req of Writing Intensive; Instructor: Froiland, Paul V
Description: This course will teach students the concepts and skills of writing for magazines. Students will learn how to identify a magazine's niche and how to market stories editors want. Through a series of writing assignments, all of which will be edited and rewritten, students will then learn how to market, develop, and write the most common types of magazine stories. In the end, students will have some experience pitching a story to a publication, giving them the first step into that marketplace.
Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.
Grading: 10% special projects, 70% written homework, 20% class participation.

**JOUR 3201 Principles of Strategic Communication: Advertising**
A-F only, 3 credit(s); prerequisite [3004W or Concurrent registration is required (or allowed) in 3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], (jour major or mass comm minor or design comm premajor or major or graphics design premajor or major or approved IDIM major or ICP major or BIS major); Instructor: Wang, Kevin Y
Description: This course will teach students the concepts and skills of writing for magazines. Students will learn how to identify a magazine's niche and how to market stories editors want. Through a series of writing assignments, all of which will be edited and rewritten, students will then learn how to market, develop, and write the most common types of magazine stories. In the end, students will have some experience pitching a story to a publication, giving them the first step into that marketplace.
Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.
Grading: 10% special projects, 70% written homework, 20% class participation.

**JOUR 3202 Principles of Strategic Communication: Public Relations**
A-F only, 3 credit(s); prerequisite [3004W or Concurrent registration is required (or allowed) in 3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], (jour major or mass comm minor or approved IDIM major or ICP major or BIS major); Instructor: Therkelson, David Jon
Description: This introductory course acquaints students with the strategic skills needed to produce copy with emphasis placed on print advertising. By the end of the semester, successful students will be able to recognize solid advertising, create basic copy and present it to others. While designed primarily for the potential copywriter, this course will be useful for any advertising student desiring a working knowledge of the creative end of the business. Individual guidance will be available for students wishing to prepare portfolios. The text are Bendinger's 'The Copy Workshop Workbook' and Strunk and White 'The Elements of Style.'
Style: 60% Lecture, 40% Discussion.
Grading: 15% mid exam, 25% final exam, 25% reports/papers, 10% quizzes, 25% class participation.
Exam Format: definitions, short answer, essay, final exam is a campaign project.

**JOUR 3241 Creative Strategy and Copywriting**
A-F only, 3 credit(s); prerequisite 3004W, 3201, (jour major or approved IDIM major or ICP major or BIS major); Instructor: Johnson, Jennifer M
Description: This course introduces students to creative strategic development and conceptual thinking in advertising. They will develop creative ideas and copy based on strategies, with particular emphasis on print. At the end of the term, successful students will be able to recognize solid advertising, develop an intelligent creative strategy, create concepts and copy, and present their ideas to others.
Style: 60% Lecture, 40% Discussion.
Grading: Team presentations account for 40% of final grade and individual quizzes, assignments, and participation account for 60% of final grade.

**JOUR 3251 Strategic Communication Research**
A-F only, 3 credit(s); prerequisite 3004W, [3159 or 3201 or 3202], (jour major or approved IDIM major or ICP major or BIS major); Instructor: Doyle, Kenneth Owen
Description: This section of JOUR 3251 brings together all the standard elements of Strategic Communication Research -- interviews, focus groups, and surveys -- but with heavy emphasis on using them in real-life applications. Roughly the first half of the course will emphasize "book learning," so you have the tools and techniques to go on to the second half. The second half will emphasize applying what you've learned, first in a group project, then in an individual project. Both the group project and the individual project will focus on integrating quantitative and qualitative primary and secondary research to discover the psychological consumer and brand insights that form the core of the most powerful advertising and public relations campaigns.
Style: 40% Lecture, 10% Discussion. Doing real-life strategic communication research projects.
Grading: 25% mid exam. Group Project 25%, Individual Project 50%.
Exam Format: Matching, and short essay: define, compare/contrast/etc.

**JOUR 3279W Public Relations Writing and Campaign Tactics**
A-F only, 3 credit(s); prerequisite [3004W, [3159 or 3201 or 3202], (jour major or approved IDIM major or ICP major or BIS major]) or instr consent for professional jour track students; Meets CLE req of Writing Intensive; Instructor: Nelson, Lynn Ingrid
Description: This course introduces students to creative strategic development and conceptual thinking in advertising. They will develop creative ideas and copy based on strategies, with particular emphasis on print. At the end of the term, successful students will be able to recognize solid advertising, develop an intelligent creative strategy, create concepts and copy, and present their ideas to others.
Style: 60% Lecture, 40% Discussion.
Grading: Team presentations account for 40% of final grade and individual quizzes, assignments, and participation account for 60% of final grade.

**JOUR 3321 Basic Media Graphics**
A-F only, 3 credit(s); prerequisite [3004W, [3159 or 3201 or 3202], (jour major or approved IDIM major or ICP major or BIS major]); Instructor: Kelley, Debra S
Description: This lab-based course gives students an introduction to the basic principles of graphic design. Students are challenged to develop their own aesthetic sense and graphic design skills through the study and creation of effective communication tools. Students are expected to work through study guides in class and on their own to develop software.
technology skills necessary to complete assignments. Hands-on projects give students the opportunity to develop their skills in designing and producing traditional print publications and new media.

Style: 10% Lecture, 10% Discussion, 80% Laboratory. project-based course - 5 projects plus software tutorials

Grading: 16% mid exam, 80% special projects, 4% class participation.

Exam Format: multiple choice

JOUR 3321 Basic Media Graphics
A-F only, 3 credit(s); prerequisite [3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [majors in required IDIM major or ICP major or BS major];

Instructor: Martin, Peter Lynn

Description: This class introduces students to the use of Graphics in digital media. Students explore basic digital imaging, how we do it, how we repurpose images and how a basic investigation of some issues the new media technology brings to the content of our images. We will start with image creation/acquisition, using digital cameras, scanners, both film and flatbed, using Adobe's PhotoShop software to modify the digital images. Assignments include Portrait, font choice, Resume, photo composite and finally, a project that investigates image intent, specifically, how the computer imaging environment affects the student's interpretation of the truth of the image they create. These projects set the tone for undertakings of creative discovery. The class is designed to provide a working knowledge of Adobe Photoshop and basic aspects of both Quark Xpress and Adobe InDesign and Adobe GoLive programs as a basis to begin exploration of the opportunities that new media technology enables.

Style: 25% Lecture, 10% Discussion, 65% Laboratory.

Grading: 100% special projects.

JOUR 3321 Basic Media Graphics
A-F only, 3 credit(s); prerequisite [3004V or 3004W or Concurrent registration is required (or allowed) in 3004W], [majors in required IDIM major or ICP major or BS major];

Instructor: Longley, Nance

Description: Student may contact the instructor or department for information.

JOUR 3451 Electronic News Writing and Reporting
A-F only, 3 credit(s); prerequisite 3004W, 3101, [majors in required IDIM major or ICP major or BS major];

Instructor: Broeckert, Jerry

Description: Student may contact the instructor or department for information.

JOUR 3551 Economics of New Media
A-F only, 3 credit(s); prerequisite Non-jour major or [major major, course appr on prog plan] or [pre-jour, adviser approval];

Instructor: Sullivan, Daniel Joseph

Description: Many people have great ideas for new ways to use the Internet or other new communications technologies to create value. The problem is figuring out why anyone would pay for these new offerings or invest in them. Solving this problem depends, in large part, on understanding what is new (and unique) about "new media." This course focuses on organizations attempting to use the Internet and related technologies to create new value or to improve the "efficiency" of their existing operations. Particular attention is paid to why companies such as Google and Yahoo are so successful, and why traditional media organizations are struggling to make money on the Internet. Among the topics to be covered are online news, weblogs, searching, e-commerce, e-mail, online games, political action organizations, social networking sites and online distribution of music and videos. Format for the class is a mix of lecture and discussion. There are two required books for the course: Re-thinking the Network Economy and The Search: How Google and Its Rivals Rewrote the Rules of Business and Transformed Our Culture. Assignments include a midterm, a final, and 3-4 short writing assignments.

Style: 60% Lecture, 40% Discussion.

Grading: 30% exam, 30% final exam, 30% reports/papers.

10% class participation.

Exam Format: mix of short answer and short essay

JOUR 3614 History of Media Communication
A-F only, 3 credit(s); prerequisite Non-jour major or [major major, course appr on prog plan] or [pre-jour, adviser approval];

Meets CLE req of Historical Perspective Core;

Instructor: Dell'Orto, Giovanna

Description: Student may contact the instructor or department for information.

JOUR 3741 People of Color and the Mass Media
A-F only, 3 credit(s); prerequisite Non-jour major or [major major, course appr on prog plan] or [pre-jour, adviser approval];

Meets CLE req of Cultural Diversity Theme;

Instructor: Squires, Catherine R

Description: Student may contact the instructor or department for information.

JOUR 3745 Mass Media and Popular Culture
A-F only, 3 credit(s); prerequisite Non-jour major or [major major, course appr on prog plan] or [pre-jour, adviser approval];

Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Brady, Miranda Jean

Description: Student may contact the instructor or department for information.

JOUR 3771 Mass Media Ethics: Moral Reasoning and Case Studies
A-F only, 3 credit(s); prerequisite Non-jour major or [major major, course appr on prog plan] or [pre-jour, adviser approval];

Meets CLE req of Citizenship/Politics Ethics Theme;

Instructor: Kirtley, Jane E

Description: Student may contact the instructor or department for information.

JOUR 3776 Mass Communication Law
A-F only, 3 credit(s); prerequisite Jour major or jour minor or approved IDIM major or ICP major or BIS major or inst consent;

Instructor: Sanders, Amy Kristin

Description: Student may contact the instructor or department for information.

JOUR 3990 Special Topics in Mass Communication: Professional
A-F only, 1-3 credit(s), max credits 2; prerequisite [3004V or 3004W], 3101 or [Concurrent registration is required (or allowed) in 3004V or Concurrent registration is required (or allowed) in 3004W], Concurrent registration is required (or allowed) in 3101];

Instructor: Broeckert, Jerry

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;

prerequisite [major major or jour minor or approved IDIM major or ICP major or BIS major], inst consent, dept consent, college consent;

Instructor: Doyle, Kenneth Owen

Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;

prerequisite [major major or jour minor or approved IDIM major or ICP major or BIS major], inst consent, dept consent, college consent;

Instructor: Sullivan, Daniel Joseph

Description: Student may contact the instructor or department for information.
JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Ison, Christopher John
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Leighton, Gordon
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Golden, Gayle Celeste
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Kirtley, Jane E
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Stone, Ken
Description: Student may contact the instructor or department
for information.
JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prerequisite [jour major or jour minor or approved IDIM major or ICP major or BIS major], instructor consent, department consent.
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prerequisite [jour major or jour minor or approved IDIM major or ICP major or BIS major], instructor consent, department consent.
Instructor: Forde, PhD, Kathy Roberts
Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prerequisite [jour major or jour minor or approved IDIM major or ICP major or BIS major], instructor consent, department consent.
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prerequisite [jour major or jour minor or approved IDIM major or ICP major or BIS major], instructor consent, department consent.
Instructor: Sanders, Amy Kristin
Description: Student may contact the instructor or department for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prerequisite [jour major or jour minor or approved IDIM major or ICP major or BIS major], instructor consent, department consent.
Instructor: Thiel-Stern, Shayla
Description: Student may contact the instructor or department for information.

JOUR 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prerequisite Jour major, department consent.
Instructor: Leighton, Gordon
Description: To enroll in this one-semester internship program, obtain an Internship Verification Form from the Undergraduate Studies (UGS) office at the SJMC in Murphy Hall. Complete the form and have your internship employer sign it, then return it to the UGS office up to mid-term of the semester (or start of summer semester). Office staff will give you a course packet and information about class meetings. This internship program can be repeated up to three times in different semesters.
Grading: 100% reports/papers.

JOUR 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prerequisite Jour major, department consent.
Instructor: Golden, Gayle Celeste
Description: Student may contact the instructor or department for information.

JOUR 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prerequisite Jour major, department consent.
Instructor: Stone, Ken
Description: Student may contact the instructor or department for information.

JOUR 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prerequisite Jour major, department consent.
Instructor: Kucharski, Matthew John
Description: Student may contact the instructor or department for information.
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JOUR 4264W Strategic Communication Campaigns  
A-F only, 4 credit(s); prerequisite: JOUR 3004W or JOUR 3201 or JOUR 3202, JOUR 3251, JOUR 3241 or JOUR 3279 or JOUR 4259 or JOUR 4261, MKTG 3001, JOUR major or approved IDIM major or ICP major or BIS major; 
Instructor: Doyle, Kenneth Owen  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: multiple choice, fill-in-the-blank, and short essays  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

JOUR 4263W Strategic Communication Campaigns  
A-F only, 4 credit(s); prerequisite: JOUR 3004W or JOUR 3201 or JOUR 3202, JOUR 3251, JOUR 3241 or JOUR 3279 or JOUR 4259 or JOUR 4261, MKTG 3001, JOUR major or approved IDIM major or ICP major or BIS major; 
Instructor: Kaiser, Kent Luther  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: multiple choice, fill-in-the-blank, and short essays  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

JOUR 4272W Interactive Advertising  
A-F only, 3 credit(s); prerequisite: Non-JOUR major or JOUR major, course approval for plan; pre-jour, adviser approval; 
Instructor: Huh, Jisu  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: performance on problem solving IS exam  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

JOUR 4263 Advertising: Media Strategy  
A-F only, 3 credit(s); prerequisite: JOUR 3004W, JOUR 3201 or JOUR 3202, JOUR 3251, JOUR major or approved IDIM major or ICP major or BIS major; 
Instructor: Herzog, Earl Alphonse  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: multiple choice, fill-in-the-blank, and short essays  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

JOUR 4302W Electronic Photojournalism  
A-F only, 3 credit(s); prerequisite: JOUR 4204W or JOUR 4204V, JOUR 3251, JOUR major or approved IDIM major or ICP major or BIS major; 
Instructor: Zerby, Mike  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: performance on problem solving IS exam  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

JOUR 4274W Advertising in Society  
A-F only, 3 credit(s); prerequisite: JOUR major or mass communication or approved IDIM major or ICP major or BIS major, Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  
Instructor: Wackman, Daniel Bruce  
Description: Advertising in Society introduces students to a variety of issues regarding ways in which advertising is linked to society. It examines these issues from several perspectives: social, cultural, economic, legal, and ethical. The course differs from professionally-oriented classes which study advertising from the perspective of a professional attempting to develop effective advertising. As a writing intensive course, Advertising in Society helps students learn how to conduct thorough analyses of issues, develop positions on issues, and present coherent and convincing arguments for positions they have taken. We begin the course with a four week section focusing on one issue involving the relationship between advertising and society. The issue chosen illustrates the complex, multifaceted nature of advertising--society issues. The next six weeks focus on the role of advertising in the economic system and the ways in which advertising is regulated to try to ensure fair competition and to protect consumers. The last five weeks focus on social criticisms of advertising and the social responsibilities of advertising practitioners.  
Exam Format: multiple choice, short answer, and essay  

JOUR 4303W Capstone: Documentary Photojournalism  
A-F only, 3 credit(s); prerequisite: JOUR 4204W or JOUR 4204V, JOUR 4202, JOUR major or approved IDIM major or ICP major or BIS major; 
Instructor: Schwartz, Dona  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: performance on problem solving IS exam  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

JOUR 4451W Capstone: Advanced Electronic News Writing and Reporting  
A-F only, 3 credit(s); prerequisite: JOUR 4204W or JOUR 4204V, JOUR 4201, JOUR 4202, JOUR major or approved IDIM major or ICP major or BIS major; 
Instructor: Schwartz, Dona  
Description: This course is designed to give students insight into the world of interactive advertising: definition of key concepts, history of interactive advertising, theories and principles for effective interactive advertising campaigns, and legal/ethical issues in interactive advertising. This course introduces new communication technologies as they have come to be used for advertising and other types of strategic communication. The course makes use of lectures, guest speakers, and discussion.  
Exam Format: performance on problem solving IS exam  
Credit will not be granted if the student has already completed JOUR 4274. Meets CLE.  

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
JOUR 4721H Mass Media and U.S. Society
A-F only, 3 credit(s); prereq Honors, [non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]];
Instructor: Sullivan,Daniel Joseph
Description: Are the news media doing a good job? How can you tell? Does it matter? Is The Daily Show the best news program on television? Why or why not? Most people seem to have an opinion about all of these questions. Most discussions seem to center on one of four themes: 1) who owns the media and what they care about; 2) media credibility and bias; 3) whether entertainment is replacing or enhancing information; and 4) to what extent is the Internet changing everything about the way the media work. Mass Media and U.S. Society will explore the validity and importance of these themes in terms of what roles can the media play in society, what roles does it play, and how have those roles changed over time. The course will draw on ideas from various social sciences to develop tools for discussing a number of specific issues related to these themes. The class format will be a mix of lecture and discussion. Required reading for the course will center on the one text for the course: The Press. There will be a midterm, a final and 3-4 short writing exercises.
Style: 10% Lecture, 40% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: short answer and short essay.

JOUR 4721H Mass Media and U.S. Society
A-F only, 3 credit(s); prereq Honors, [non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]];
Instructor: Sullivan,Daniel Joseph
Description: Are the news media doing a good job? How can you tell? Does it matter? Is The Daily Show the best news program on television? Why or why not? Most people seem to have an opinion about all of these questions. Most discussions seem to center on one of four themes: 1) who owns the media and what they care about; 2) media credibility and bias; 3) whether entertainment is replacing or enhancing information; and 4) to what extent is the Internet changing everything about the way the media work. Mass Media and U.S. Society will explore the validity and importance of these themes in terms of what roles can the media play in society, what roles does it play, and how have those roles changed over time. The course will draw on ideas from various social sciences to develop tools for discussing a number of specific issues related to these themes. The class format will be a mix of lecture and discussion. Required reading for the course will center on the one text for the course: The Press. There will be a midterm, a final and 3-4 short writing exercises.
Style: 10% Lecture, 40% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: short answer and short essay.
JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Hansen,Kathleen Ann
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Leighton,Gordon
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Golden,Gayle Celeste
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Schwitzer,Gary John
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Southwell,Brian G
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Stone,Ken
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Eighmey,John
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Pedelty,Mark Holmes
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Dell'Orto,Giovanna
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Faber,Ronald J
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Schwartz,Dona
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Timm,Albert R
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Thesis
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Wackman,Daniel Bruce
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>JOUR 5155 Capstone: Advanced Reporting Methods</td>
<td>A-F only, 3 credit(s); [3004W or 3004V], 3101, 3121, [jour major or approved IDIM major or ICP major or BIS major]</td>
<td>Grad student credit will not be granted if credit received for: 4155;</td>
<td>Schwitzer, Gary John</td>
</tr>
<tr>
<td>JOUR 5131 Capstone: In-Depth Reporting</td>
<td>A-F only, 3 credit(s); [3004W or 3004V], 3101, 3121, [jour major or approved IDIM major or ICP major or BIS major]</td>
<td>grad student credit will not be granted if credit received for: 4131;</td>
<td>Mc Enroe, Paul Joseph</td>
</tr>
<tr>
<td>JOUR 5541 Mass Communication and Public Health</td>
<td>A-F only, 3 credit(s);</td>
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</table>
present. We will survey the history of American journalism chronologically using a series of important scholarly works and primary sources. We will consider journalism broadly and study the ways that a practice with its origins in printed texts has adapted to new forms of visual representation (pictorial reporting, editorial cartoons, photojournalism) and electronic media (telegraph, radio, television, and internet). Throughout the course, we will devote particular attention to four major themes in American journalism history: ? What have been the functions of the press, and how have these changed over time? ? How have new technologies influenced the practice of journalism throughout American history? ? What has it meant in various time periods to be a journalist? ? What has and does it mean to call a form of information production ?journalism?? American journalism is at present in the midst of a particularly tumultuous era. Each of the four questions above is stimulating vigorous debate among contemporary professionals within the press, and among critics in academic and intellectual circles. By examining these questions in historical perspective, the course aims to enable students to not only critically assess the history of American journalism, but able to better understand ? individually and collectively ? the stakes and contexts of the contemporary debates.

JOUR 5606W Literary Aspects of Journalism
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; IDL sections are open to non-majors; prereqs do not apply to IDL sections; Credit will not be granted if credit has been received for: ENGW 5606; Meets CLE req of Writing Intensive;
Instructor: Roberts, Nancy Lee
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Pedelty, Mark Holmes
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Dell'Orto, Giovanna
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Faber, Ronald J
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Schwartz, Dona
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Tims, Albert R
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Wackman, Daniel Bruce
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Hansen, Kathleen Ann
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Chang, Tsan-Kuo
Description: Student may contact the instructor or department for information.
JOUR 5993 Directed Study  
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;  
prereq [Jour major or jour minor or approved IDIM major or  
ICP major or BIS major], GPA of at least 3.00, college  
consent , dept consent , instr consent ;  
Instructor: Leighton, Gordon  
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study  
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;  
prereq [Jour major or jour minor or approved IDIM major or  
ICP major or BIS major], GPA of at least 3.00, college  
consent , dept consent , instr consent ;  
Instructor: Golden, Gayle Celeste  
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study  
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;  
prereq [Jour major or jour minor or approved IDIM major or  
ICP major or BIS major], GPA of at least 3.00, college  
consent , dept consent , instr consent ;  
Instructor: Kirley, Jane E  
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study  
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;  
prereq [Jour major or jour minor or approved IDIM major or  
ICP major or BIS major], GPA of at least 3.00, college  
consent , dept consent , instr consent ;  
Instructor: Kirtley, Jane E  
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone  
A-F only, 4 credit(s); prereq 8191, 8195, health journalism  
MA prog;  
Instructor: Doyle, Kenneth Owen  
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone  
A-F only, 4 credit(s); prereq 8191, 8195, health journalism  
MA prog;  
Instructor: Finnegan Jr, John Robert  
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone  
A-F only, 4 credit(s); prereq 8191, 8195, health journalism  
MA prog;  
Instructor: Sullivan, Daniel Joseph  
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone  
A-F only, 4 credit(s); prereq 8191, 8195, health journalism  
MA prog;  
Instructor: Isom, Christopher John  
Description: Student may contact the instructor or department for information.
JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 4 credit(s); prereq 8191, 8195, health journalism
MA prog;
Instructor: Greaves, Jan A
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 4 credit(s); prereq 8191, 8195, health journalism
MA prog;
Instructor: Luepker MD, Russell V
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 4 credit(s); prereq 8191, 8195, health journalism
MA prog;
Instructor: Story PhD, Mary T
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 4 credit(s); prereq 8191, 8195, health journalism
MA prog;
Instructor: Schwitzer, Gary John
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 4 credit(s); prereq 8191, 8195, health journalism
MA prog;
Instructor: Southwell, Brian G
Description: Student may contact the instructor or department for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 4 credit(s); prereq 8191, 8195, health journalism
MA prog;
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

JOUR 8205 Cases in Strategic Communication
A-F only, 3 credit(s); prereq 8203, strat comm MA grad major;
Instructor: Wood, Michelle Leigh Maronn
Description: Student may contact the instructor or department for information.

JOUR 8501 Seminar: The Process of Quantitative Mass Communication Research
A-F only, 3 credit(s); prereq 9 cr soc sci, EPsy 5260 or equiv or concurrent enrollment in EPsy 5260;
Instructor: Wackman, Daniel Bruce
Description: Student may contact the instructor or department for information.

JOUR 8513 Seminar: Ethnographic Methods in Mass Communication Research
A-F only, 3 credit(s); same as Anth 8810;
Instructor: Pedelty, Mark Holmes
Description: Ethnography has become increasingly important to the study of media, from classic newsroom studies to online ?virtual ethnographies.? Nevertheless, the term means different things to different disciplines, from the anthropologists? emphasis on long-term fieldwork, participant observation, and integration of multiple methodologies, to the more textual orientations of Cultural Studies scholars. We will discuss how the methodology differs from discipline to discipline, using the seminar as an interdisciplinary forum to think about the study of media cultures, texts, institutions, and systems. Students do not need to be ethnographers in order to benefit from the seminar. Relatively few researchers are. The goal is to learn to think and write ethnographically. A central goal of the seminar is to assess ethnographic texts as examples of writing. In the process each student will become a better writer and find new ways to approach his or her research. As one of the Graduate School?s designated Interdisciplinary Dissertation-Writing Seminars, it is intended for doctoral students across the disciplines who are planning and writing their dissertations.
Style: 60% Discussion, 30% Student Presentation, 10% Web Based. Emphasis on sharing and discussing writing
Grading: 60% reports/papers, 20% reflection paper, 20% in-class presentation.

JOUR 8601 Seminar: Methods in Mass Communication History Research
A-F only, 3 credit(s); prereq 8001, 8002;
Instructor: Forde PhD, Kathy Roberts
Description: Student may contact the instructor or department for information.

JOUR 8678 Seminar: Constitutional Law—Theories of Freedom of Expression
A-F only, 3 credit(s); prereq 5777 or instr consent; Credit will not be granted if credit has been received for: LAW 6059;
Instructor: Kirtley, Jane E
Description: This course will survey the evolution of First Amendment law as it affects the legal rights and privileges of the print and electronic media. Topics will include prior restraints, libel, privacy, reporters' privilege, access to courts (including free press/fair trial), commercial speech, and obscenity/decency. The course will examine the statutory and common law rights of access to information, and will consider the constitutional implications of government regulation of media content, including the new media. We will read court opinions as well as seminal scholarly articles on the historical origins and philosophical foundations of freedom of press and speech, and review doctrinal themes.
Style: 5% Lecture, 10% Film/Video, 65% Discussion, 10% Student Presentation, 10% Guest Speakers. This is a seminar, so thorough preparation and enthusiastic participation in discussions is required.
Grading: 20% mid exam, 50% reports/papers, 10% in-class presentation, 20% class participation. Attendance is required. More than one unexcused absence will lower the student's class participation grade. Due dates for assignments are strictly enforced.

JOUR 8681 Seminar: Media and Globalization
A-F only, 3 credit(s); prereq 4801 or 5825 or instr consent;
Instructor: Chang, Tsan-Kuo
Description: Student may contact the instructor or department for information.

JOUR 8990 Special Problems in Mass Communication
A-F only, 3-4 credit(s), max credit(s) 12, 4 repeats allowed;
Instructor: Huh, Jisu
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credit(s) 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Doyle, Kenneth Owen
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credit(s) 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Sullivan, Daniel Joseph
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credit(s) 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Pedelty, Mark Holmes
Description: Ethnography has become increasingly important to the study of media, from classic newsroom studies to online ?virtual ethnographies.? Nevertheless, the term means different things to different disciplines, from the anthropologists? emphasis on long-term fieldwork, participant observation, and integration of multiple methodologies, to the more textual orientations of Cultural Studies scholars. We will discuss how the methodology differs from discipline to discipline, using the seminar as an interdisciplinary forum to think about the study of media cultures, texts, institutions, and systems. Students do not need to be ethnographers in order to benefit from the seminar. Relatively few researchers are. The goal is to learn to think and write ethnographically. A central goal of the seminar is to assess ethnographic texts as examples of writing. In the process each student will become a better writer and find new ways to approach his or her research. As one of the Graduate School?s designated Interdisciplinary Dissertation-Writing Seminars, it is intended for doctoral students across the disciplines who are planning and writing their dissertations.
Style: 60% Discussion, 30% Student Presentation, 10% Web Based. Emphasis on sharing and discussing writing
Grading: 60% reports/papers, 20% reflection paper, 20% in-class presentation.
JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Forde PhD,Kathy Roberts
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Golden,Gayle Celeste
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Kirtley,Jane E
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Schwartz,Dona
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Southwell,Brian G
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Stone,Ken
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Schwitzer,Gary John
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Eighmey,John
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Huh,Jisu
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Kirtley,Jane E
Description: Student may contact the instructor or department for information.

JOUR 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Leighton,Gordon
Description: Student may contact the instructor or department for information.
KIN 1050 Beginning Military Physical Fitness Training
A-F only, 1 credit(s), max credits 4, 4 repeats allowed; 
prereq Grad mass comm major or minor, instr consent, dept consent; 
Instructor: Mayo, Sean Christopher 
Description: The Advanced Military Physical Fitness class uses the military model as the basic premise of instructing physical fitness. Advance Course students are assigned supervisory and leadership positions within the class. The Advance Course student is expected to participate and supervise class activities and can be assigned as a group leader of a beginning physical fitness class. The class continues to incorporate the military components of fitness such as cardiorespiratory, muscular strength, muscular endurance, flexibility and body composition with the principles of exercise such as regularity, progression, balance, variety, specificity, recovery and overload into a balanced physical fitness program. Fitness conditioning is accomplished using a variety of techniques such as running, weight training, abdominal and upper body strength exercises, circuit training and team sports activities. Classes are ability group oriented and allow individual progression within a group environment.

KIN 1871 Introduction to Kinesiology
A-F only, 2 credit(s); 
Instructor: Novotny, Susan A 
Description: Student may contact the instructor or department for information.

KIN 1993 Directed Study in Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed; 
prereq instr consent; 
Instructor: Hoffman, Brandi L 
Description: For lower division students planning to major in Kinesiology who wish to study a topic or problem under tutorial guidance.

KIN 3001 Lifetime Fitness and Health
A-F only, 3 credit(s); Meets CLE req of Social Science Core; 
Instructor: Ingraham, Stacy Jean 
Description: This class addresses current health and wellness issues at the individual, local and global levels. The components of wellness involve; physical, social, emotional, intellectual, spiritual, environmental and financial health. The goal of the class is to develop strategies that improve quality of life throughout lifetime expectancy. This is an interactive class through lecture. The target audience for this class is students desiring a healthy and productive life. 
Style: 80% Lecture, 15% Discussion.
Grading: 14% mid exam, 14% final exam, 29% reports/papers, 3% quizzes, 23% written homework, 10% reflection paper, 7% in-class presentation. 
Exam Format: Multiple choice / T-F

KIN 3001 Lifetime Fitness and Health
A-F only, 3 credit(s); Meets CLE req of Social Science Core; 
Instructor: Caroll, Christopher K 
Description: Overview of health and wellness, including physical, emotional, intellectual, spiritual, social, environmental, and financial health. Societal changes and the influences of these changes on the general health and wellness of diverse populations.

KIN 3027 Human Anatomy for Kinesiology Students
A-F only, 3 credit(s); 
Instructor: Biltz, George Robert 
Description: Student may contact the instructor or department for information.

KIN 3050 Advanced Military Physical Fitness Training
A-F only, 1 credit(s), max credits 4, 4 repeats allowed; 
prereq 4 cr of 1050 or instr consent; 
Instructor: Mayo, Sean Christopher 
Description: The Advanced Military Physical Fitness class uses the military model as the basic premise of instructing physical fitness. Advance Course students are assigned supervisory and leadership positions within the class. The Advance Course student is expected to participate and supervise class activities and can be assigned as a group leader of a beginning physical fitness class. The class continues to incorporate the military components of fitness such as cardiorespiratory, muscular strength, muscular endurance, flexibility and body composition with the principles of exercise such as regularity, progression, balance, variety, specificity, recovery and overload into a balanced physical fitness program. Fitness conditioning is accomplished using a variety of techniques such as running, weight training, abdominal and upper body strength exercises, circuit training and team sports activities. Classes are ability group oriented and allow individual progression within a group environment.

KIN 3112 Introduction to Biomechanics
A-F only, 4 credit(s); prereq [PHYS 1101W or PHYS 1201W or PHYS 1301W or PHYS 1401W], [3027 or 3111 or ANAT 3001 or ANAT 3601 or ANAT 3611 or INMD 3001 or INMD 3601]; 
Instructor: Pickett, Kristen A 
Description: This nationally recognized curriculum is taught according to the standards of the Department of Transportation (USDOT). It is presented in an interactive and small group format to prepare students to work at the level of First Responder, the first level in the EMS chain of emergency care delivery. Certification includes: AHA-BLS for Health Care Providers and USDOT First Responder. Includes: Patient assessment, airway management, trauma care and critical thinking. 
Style: 30% Lecture, 5% Film/Video, 30% Laboratory, 30% Small Group Activities, 5% Guest Speakers. This course is scenario based learning. Every class will contain 1/2 didactic presentations, 1/2 activities. 
Grading: 20% final exam, 20% quizzes, 10% in-class presentation, 25% class participation, 25% laboratory evaluation. Student may not miss >3 class sessions. This will result in dismissal from the course. 
Exam Format: Combination written/practical skills demonstration.
KIN 3114 Prevention and Care of Athletic Injuries
A-F only, 3 credit(s); prereq [[3027 or 3111], CEHD student] or instr consent
Instructor: Hamilton, Amy

KIN 3125W Psychology and Sociology of Sport
A-F only, 3 credit(s); prereq Kin major; Meets CLE req of Writing Intensive;
Instructor: Rodd, Chelsea M
Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3126W Psychology and Sociology of Sport
A-F only, 3 credit(s); prereq Kin major; Meets CLE req of Writing Intensive;
Instructor: Boliert, Nicole
Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3131W History and Philosophy of Sport
A-F only, 3 credit(s); prereq Kin major or instr consent;
Meets CLE req of Writing Intensive;
Instructor: Valentin, Tommy
Description: Kin 3131w seeks to foster new understandings of sport through philosophical and historical exploration. Broadened and deepened understanding can illumine involvement in and observation of sport as full of significance on many different levels. Simply put, sport becomes increasingly meaningful in a variety of ways to both participants (athletes, coaches etc.) and observers (fans, parents, etc.) when it can be viewed and discussed from both historical and philosophical perspectives. Sport has shaped and continues to shape many passionate practitioners. Our course will provide insight to how and why this shaping process occurs. Learning to see historical and philosophical connections is a habit and a skill that the course seeks to cultivate. With heightened awareness we will become more experienced and mindful practitioners of sport.
Texts include: Bergmann Drew, S., (2003). Why Sport?: An Introduction to the Philosophy of Sport. Toronto: Thompson Educational Publishing, Inc. Multiple additional readings will be used and will be made available via web ct. The course is intended primarily for undergraduate kinesiology majors, but other undergraduates are encouraged to enroll, space permitted
Style: 40% Lecture, 40% Discussion. Writing Exercises and Group Presentations
Grading: 20% mid exam, 52% reports/papers, 7% quizzes, 15% in-class presentation, 6% class participation.
Exam Format: Short answer, Identification of quotations, and Essay

KIN 3133 Motor Control, Learning, and Development
A-F only, 3 credit(s); prereq Kin maj or instr consent ;
Instructor: Stoffregen, Thomas
Description: Kinesiology 3133 (Perceptual-motor control and learning) is an introduction to the emergence and stabilization of motor skills. It is not a course about development of enhancement of sport of athletic abilities, coaching, or sports performance, although we will occasionally discuss examples from these areas. The class is relevant to students who are interested in movement and development over the lifespan and issues of perception and action, in general. Most students in previous classes have career goals in the fields of human development, education, exercise physiology, or physical rehabilitation. By the end of the course, students will have a broad awareness of many of the factors involved in the perception and control of human movement. The class will operate at a fast pace and will require reading, research, writing, and project development.
Style: 80% Lecture, 5% Discussion, 15% Laboratory.
Grading: 20% mid exam, 25% final exam, 10% reports/papers, 25% laboratory evaluation, 20% other evaluation. additional exam
Exam Format: multiple choice, with short essays

KIN 3143 Organization and Administration of Sport
A-F only, 3 credit(s); prereq Kin major or instr consent ;
Instructor: Schull, Vicki Denise
Description: How to organize/administer sports/activities. Practice/class organization, meet/game organization, facility/equipment needs, finances.

KIN 3151 Measurement, Evaluation, and Research in Kinesiology
A-F only, 3 credit(s); prereq Kin major or instr consent ;
Instructor: Cousins, Julie Marie
Description: Student may contact the instructor or department for information.

KIN 3168 Soccer Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or Kin major or instr consent ], skills sufficient for participating in drills/game/match/test for demonstration/teaching purposes;
Instructor: Cardarelle, Amy Jo
Description: Coaching theory and skill development necessary to coach soccer.

KIN 3169 Volleyball Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or Kin major or instr consent ], skills sufficient for participating in drills/game/match/test for demonstration/teaching purposes;
Instructor: Chung, Vinh Khai
Description: Coaching theory and skill development necessary to coach volleyball.

KIN 3173 Football Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or Kin major or instr consent ], skills sufficient for participating in drills/game/match/test for demonstration/teaching purposes;
Instructor: Peterson, Gregory Jon
Description: Coaching theory and skill development necessary to coach football.

KIN 3177 Ice Hockey Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or Kin major or instr consent ], skills sufficient for participating in drills/game/match/test for demonstration/teaching purposes;
Instructor: Carrow, Christopher K
Description: Coaching theory and skill development necessary to coach ice hockey.

KIN 3178 Tennis Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or Kin major or instr consent ], skills sufficient for participating in drills/game/match/test for demonstration/teaching purposes;
Instructor: Cousins, Julie Marie
Description: Coaching theory and skill development necessary to coach tennis.

KIN 3237 Teaching Physical Education in the Elementary School
A-F only, 2 credit(s); prereq Elem ed major;
Instructor: Moores, Nancy Eileen Ro
Description: This course is designed for the elementary (K-8) classroom teacher. The course is activity based and designed to give the classroom teacher the ability to engage their students in age appropriate, energizing activities. Both the classroom and the gymnasium will be used for instruction and micro-teaching. Physical education classes in the gymnasium will be active while experiencing current curriculum and methodology. Emphasis will focus on the importance of regular and active physical education to the total school curriculum, with the inclusion of the health.
social, and emotional benefits for the child. Elements of an effective quality physical education program will be included, such as, knowledge about the growing child, management skills, curriculum, lesson plan design, lesson presentation, communication, and age appropriate activities. Techniques to enhance communication, collaboration and integration between the physical education teacher and the classroom teacher, meeting special needs, and community involvement are also regularly addressed.

**Course Guide at** http://onestop.umn.edu. **IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

**KIN 3385 Human Physiology**
- A-F only, 4 credit(s); prereq [[3027 or 3111 or equiv], kin major] or instr consent
- Instructor: Bhalla,Jennifer Anita
- Description: Functional/integrative approach organized by level of description, from molecular genetics to dynamic movement/clinical conditions. Cellular mechanisms for major physiological functions. Exercise, fitness, health, growth.

**KIN 3696 Supervised Practical Experience**
- S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed; prereq instr consent
- Instructor: Hoffman,Brandi L
- Description: This internship is designed for current or prospective Kinesiology majors who are considering teaching in the area of K-12 Physical Education and are also seeking field experience credits. It consists of observation and assistance in physical education in the public schools, with particular emphasis on the urban setting. School assignments are arranged by the University Supervisor. Students are required to establish a regular schedule at each school site and conduct themselves professionally with regard to punctuality, attire and interaction with students and all school personnel. This field experience can be used to garner hours in the mainstreamed physical education setting necessary for admission to the Initial Teacher Licensure Program in K-12 Physical Education. Grading is S/N only and based on the following: 1) Completed journal, 2) Completed hours as signed by the cooperating physical education teacher, and 3) Completed evaluation form sent by the cooperatung physical education teacher, and a final meeting with the University Supervisor. One credit is equal to 40 hours in the schools. The other five hours are devoted to journal entries and reflection.
- Style: On-site
- Grading: 50% reports/papers, 50% other evaluation. Hours completed and evaluation

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Biltz,George Robert
- Description: Student-selected clinical or research experience

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Rodgerson,Richard W
- Description: Student-selected clinical or research experience

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Spletzler,Elizabeth A
- Description: Student selected and instructor approved clinical or research experience linked to a school-related, most likely physical education, issue or topic. Specific details will need to be discussed with the instructor and mutually agreed upon protocols and expectations will be put in written form for both the student and the instructor. Forty-five hours of work for each credit at the undergraduate level.
- Style: Media Research or on-site experience.
- Grading: 100% reports/papers. 45hrs/credit

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Lewis,Beth Ann
- Description: Student-selected clinical or research experience

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: LaVoi,Nicole Marie
- Description: Student-selected clinical or research experience

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Ingraham,Stacy Jean
- Description: Student-selected clinical or research experience

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Allison JD,Rayla
- Description: Student-selected clinical or research experience

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Serfass,Robert C
- Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Leon,Arthur S
- Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Kane,Mary Jo
- Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

**KIN 3993 Directed Study in Kinesiology**
- A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent
- Instructor: Wade,Michael G
- Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.
KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent;
Instructor: Konczak PhD, Juergen
Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent;
Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent;
Instructor: Ross, Stephen D
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent;
Instructor: Kihl, Lisa A
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent;
Instructor: Petit, Moira Anne
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq instr consent;
Instructor: Weiss, Maureen R
Description: Student-selected clinical or research experience

KIN 3993H Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prereq Kin Honors, instr consent;
Instructor: Wade, Michael G
Description: Student-selected clinical or research experience

KIN 4001H Honors Seminar in Kinesiology
A-F only, 3 credit(s), max credits 6; prereq Kinesiology honors;
Instructor: Stoffregen, Thomas
Description: Contemporary issues in kinesiological research, laboratory rotations, development of UROP project proposals, development of senior thesis topics, advanced study, career opportunities in Kinesiology, special learning opportunities.

KIN 4132 Motor Development
A-F only, 3 credit(s);
Instructor: Yank, Jane Redfield
Description: Developmental aspects of human movement behavior/learning. Life span change of motor skills.

KIN 4135 Motor Control and Learning
A-F only, 3 credit(s); prereq Kin 3112, Kin 3133;
Instructor: Wade, Michael G
Description: This course covers the principles that influence the learning of motor skills; the theoretical ideas that have sought to account for both skill learning and the control and coordination of motor behavior. The course consists of a weekly lecture and discussion-quizzes to cover textbook material, an end of semester project and a take-home final exam. In addition to the lectures students will be required to read assigned readings to supplement the textbook.

KIN 4385 Exercise Physiology
A-F only, 4 credit(s); prereq [KIN 3385 or PHSL 3051, or equiv], kin major) or instr consent;
Instructor: Dangel PhD, Donald Robert
Description: Information and learning experiences will be presented that cover specific areas within the discipline of Exercise Physiology. This course is designed for the advanced undergraduate student in Kinesiology, as well as advanced...
KIN 4897 Student Teaching: Coaching
S-N only, 3 credit(s); prereq Admission to [coaching minor or certificate program];
Instructor: Ingraham, Stacy Jean
Description: Practicum with coinciding seminars.

KIN 4741 Strength and Power Development and Program Design
A-F only, 3 credit(s); prereq Kinesiology major or coaching minor or coaching certificate or kinesiology MEd or instr consent;
Instructor: Fitzgerald, John S
Description: Student may contact the instructor or department for information.

KIN 4981 Understanding Kinesiology Research
A-F only, 3 credit(s); prereq Intro statistics recommended;
Instructor: STAFF
Description: Prepares students to critically analyze research specific to Kinesiology.

KIN 5104 Physical Activities for Persons with Disabilities
A-F only, 3 credit(s);
Instructor: Leitschuh, Carol A.
Description: Different approaches to providing physical education service and related movement interventions for persons with disabilities. Topics: movement skill progressions, unique considerations for specific disability categories, and sport for persons with disabilities.

KIN 5111 Sports Facilities
A-F only, 3 credit(s); prereq Kin or Rec grad student or MEd student;
Instructor: Turman PhD, James C
Description: An overview of sports facilities including the planning, development, design, construction, and management of such facilities with emphasis on major indoor multipurpose facilities for recreational sports, physical education, and intercollegiate athletics on the college campus and an introduction to public/private arenas and stadiums. Other topic areas may include funding and financing, operations management, marketing, advertising, public relations, and risk management.
Style: 35% Lecture, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers.
Grading: 17% final exam, 35% reports/papers, 25% special projects, 13% written homework, 5% attendance. Note: attendance also includes in-class presentation and participation.
Exam Format: multiple choice, fill-in, matching, and essay

KIN 5122 Applied Exercise Physiology
A-F only, 3 credit(s); prereq 4385 or equiv or instr consent;
Instructor: Kaufman, Christopher L
Description: This course will be taught at a graduate level and will cover advanced topics generally related to exercise physiology. Emphasis will be placed on the clinical and disease aspects of exercise physiology as well as current controversial topics in the field. The course will consist of lectures by the instructor (or guest lecturers), structured debates on relevant topics of interest, peer-reviewed journal article critiques/presentations, and other interactive exercises that will require the application of knowledge gained from the text and lectures.
Style: 70% Lecture, 20% Discussion, 10% Student Presentation.
Grading: 27% mid exam, 27% final exam, 18% special projects, 13% quizzes, 7% in-class presentation, 8% class participation.
Exam Format: Exams are essay format. You are given the class period (2.5 hours) to answer 2-3 questions related to the previous lectures. All exams carry the same weight (i.e., all exams are worth 100 points).

KIN 5136 Psychology of Coaching
3 credit(s);
Instructor: LaVoi, Nicole Marie
Description: The course is broken down into two components. The first component focuses on helping coaches (and other sport practitioners) develop skills in creating a climate where optimal development, optimal performance and optimal experience occur simultaneously. Topics covered in this component include coaching philosophy, leadership, communication skills, motivation, and team building. The second component introduces psychological skills training (PST) and ways in which coaches can implement PST in their programs for performance enhancement. This is an applied course. Kin 3126 is strongly recommended as a pre-requisite. This course is invaluable and highly recommended for students in the coaching minor, and for UG and Graduate students who are currently coaching or intend to coach.
Style: 50% Lecture, 5% Film/Video, 15% Discussion, 5% Laboratory, 10% Small Group Activities, 5% Student Presentation, 5% Guest Speakers, 5% Web Based. The course is taught using blended learning and different teaching pedagogies aimed at actively engaging students.
Grading: 15% final exam, 20% reports/papers, 50% reflection paper, 5% in-class presentation, 10% class participation.
Exam Format: short answer, case study, essay

KIN 5142 Applied Sport Nutrition for Athletic Performance
3 credit(s); prereq Grad student or instr consent;
Instructor: Ingraham, Stacy Jean
Description: This course investigates the current trends in athletic performance related to sports nutrition. The course provides an opportunity to evaluate current supplementation in the athletic arena. The student will develop an understanding of evidence based recommendations in sport nutrition.
Style: 65% Lecture, 10% Discussion, 15% Small Group Activities, 15% Student Presentation.
Grading: 50% final exam, 31% reports/papers, 23% special projects, 5% attendance, 11% in-class presentation.
Exam Format: essay

KIN 5196 Practicum: Developmental/Adapted Physical Education
S-N only, 1-4 credit(s), max credits 4, 4 repeats allowed; prereq 5103 or concurrent enrollment 5103 or 5104 or concurrent enrollment 5104 or instr consent; KIN undergraduate pre-teaching with sr status are limited to 2 practicum hrs;
Instructor: Leitschuh, Carol A.
Description: This practicum course includes participation in the public school system of physical education instruction for students with disabilities; includes a seminar component for discussion of current issues in developmental adapted physical education and exchange of ideas and problems.

KIN 5371 Sport and Society
A-F only, 3 credit(s); prereq [3126W, grad student] or instr consent;
Instructor: STAFF
Description: Sport, sporting processes, social influences, systems. Structures that have affected and exist within/among societies, nations, and cultures. Contemporary issues such as social differentiation, violence, and honesty.

KIN 5375 Competitive Sport for Children and Youth
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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3 credit(s);  
**Instructor:** Wiese-Bjornstal PhD,Diane  
**Description:** A number of cognitive, behavioral, and physical developmental factors having important implications for organized sport participants from early childhood through high school age are examined in this course. Such factors typically include the historical, philosophical, psychological, social, managerial, medical and physiological dimensions of youth sport participation, as well as related current issues in sport for children and youth. Emphasis is placed both on gaining knowledge about sport science research on young athletes and discussing about current issues surrounding children and youth in sport. Students are expected to demonstrate their ability to apply this knowledge toward improving the climate of sport for children and youth via their current or future work as youth sport professionals. Target audiences include applied kinesiology professionals such as current and prospective youth sport coaches and program administrators, physical education teachers, recreation leaders, early childhood and parent educators, and youth development specialists. Pedagogical techniques include lecture, discussion, video, guest speakers, and peer presentations.  
**Style:** 50% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.  
**Grading:** 20% mid exam, 20% final exam, 30% reports/papers, 10% reflection paper, 10% in-class presentation, 10% class participation.  
**Exam Format:** Usually short and/or long essay format.  

**KIN 5385 Exercise for Disease Prevention and Management**  
A-F only, 3 credit(s); prerequisite Undergrad [physiology or biology];  
**Instructor:** Leon,Arthur S  
**Description:** Exercise testing and prescription with modifications required because of special considerations associated with aging, gender differences, environmental conditions, and the presence of medical conditions.  
**Style:** 90% Lecture, 5% Discussion, 5% Laboratory.  
**Grading:** 40% mid exam, 40% final exam, 20% reports/papers.  

**KIN 5461 Foundations of Sport Management**  
A-F only, 3 credit(s); prerequisite Kin or rec or postbac or grad student or instr consent;  
**Instructor:** Esten,Phil L  
**Description:** Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.  

**KIN 5485 Advanced Electrocardiogram, Graded Exercise Testing, and Prescription**  
A-F only, 3 credit(s); prerequisite [3385, 4385] or instr consent;  
**Instructor:** Leon,Arthur S  
**Description:** Student may contact the instructor or department for information.  

**KIN 5601 Sport Management Ethics and Policy**  
A-F only, 3 credit(s); prerequisite MEd or grad student or instr consent;  
**Instructor:** STAFF  
**Description:** How to critically analyze ethical concepts that underpin or inform sport policies and evaluate sport policies from a normative point of view. Selected sport policy issues are used to illustrate relevance of ethical considerations in policy development and to explore the ethical implications of sport policy.  

**KIN 5631 Programming and Promotion in Sport**  
A-F only, 3 credit(s); prerequisite Kin or Rec grad student or instr consent;  
**Instructor:** Ross,Stephen D  
**Description:** While sport promoters can be traced as far back as early 20th century boxing matches, sport marketing as a concept has just recently been credited with the sudden rise in industrial interest. Although the sport industry is still in it's early growth period, it has experienced extreme financial prosperity. Largely responsible for the increased popularity and revenue gain of the field is sport marketing. This course is designed to introduce marketing concepts as they apply to the sport industry. Topics such as consumer behavior, market research, the marketing mix and licensing will be covered through the use of interactive discussion and practical application.  

**KIN 5641 Scientific Theory and Application of Training and Conditioning in Sport**  
A-F only, 3 credit(s); prerequisite 4385 or SPST 3641 or SPST 4641 or exercise physiology course or instr consent;  
**Instructor:** Ingram,Stacy Jean  
**Description:** This course analyzes strategies used to design training and conditioning programs for athletic performance. This course is a round-table discussion reviewing peer-reviewed journal articles specific to training athletes. This course is an opportunity to discuss and critique current trends in sport training and to make evidence-based decisions in the interest of sport performance.  
**Style:** 5% Lecture, 70% Discussion, 25% Student Presentation.  
**Grading:** 24% final exam, 29% reports/papers, 17% written homework, 15% journal, 15% in-class presentation.  

**KIN 5696 Practicum in Kinesiology**  
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed; prerequisite Grad student in KIN, instr consent;  
**Instructor:** Ingram,Stacy Jean  
**Description:** Practical experience in Kinesiology under supervision of a University adviser and an agency supervisor.  

**KIN 5696 Practicum in Kinesiology**  
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed; prerequisite Grad student in KIN, instr consent;  
**Instructor:** Allison JD,Rayla  
**Description:** Practical experience in Kinesiology under supervision of a University adviser and an agency supervisor.  

**KIN 5696 Practicum in Kinesiology**  
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed; prerequisite Grad student in KIN, instr consent;  
**Instructor:** Leon,Arthur S  
**Description:** Practical experience in Kinesiology under supervision of a University adviser and an agency supervisor.  

**KIN 5696 Practicum in Kinesiology**  
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed; prerequisite Grad student in KIN, instr consent;  
**Instructor:** Kihhi,Lisa A  
**Description:** Practicum offers students opportunities to work in a professional environment under the guidance of professionals. This professional experience should be completed near the completion of your M.Ed. program (completed 15 credits or more) as a culmination of your education and experience. Practicum should be viewed as a transition step between a student?s education and their professional career. Typically the practicum offers a level of responsibility that allows a student to develop professional skills in the field/industry while offering the student training and supervision, which allows them to practically apply previously studied theory. Course information at http://intranet.kin.umn.edu/practicum/  

**KIN 5720 Special Topics in Kinesiology: Motivational Interventions in Physical Activity**  
3 credit(s), max credits 8, 8 repeats allowed; prerequisite Kin upper div undergrad or grad student or instr consent;  
**Instructor:** Lewis,Beth Ann  
**Description:** The first half of this course provides an overview of psychological principles related to physical activity adoption and maintenance including the benefits of physical activity and theoretical constructs important for physical activity behavior change. The second half of this course includes an in-depth review of the motivational interventions for physical activity. The purpose of this applied course is to prepare undergraduate and graduate students in the delivery of motivational interventions for physical activity.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 5720</td>
<td>Special Topics in Kinesiology: Collegiate Athletic Governance and Regulations</td>
<td>2 credit(s), max credits 8, 8 repeats allowed; prereq Kin upper div undergrad or grad student or instr consent</td>
<td>Fitzgerald, Kevin Michael Patrick</td>
<td>The world of college sports is examined through the perspective of the student-athlete. This course aims to provide an in-depth examination of the contradictory and demanding environment of college athletics and seeks to enhance students' understandings of effectively working with the student-athlete.</td>
</tr>
<tr>
<td>KIN 5720</td>
<td>Special Topics in Kinesiology: Youth Physical Activity &amp; Sedentary Behavior</td>
<td>3 credit(s), max credits 8, 8 repeats allowed; prereq Kin upper div undergrad or grad student or instr consent</td>
<td>Barr-Anderson, Daheila Julina</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>KIN 5720</td>
<td>Special Topics in Kinesiology: Developmental Sport and Exercise Psychology</td>
<td>3 credit(s), max credits 8, 8 repeats allowed; prereq Kin upper div undergrad or grad student or instr consent</td>
<td>Weiss, Maureen R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>KIN 5701</td>
<td>Legal Aspects of Sport and Recreation</td>
<td>A-F only, 4 credit(s); prereq Kin or rec major</td>
<td>Loher, Vickie Lynn</td>
<td>Legal issues related to recreation, park, and sport programs/facilities with public/private sectors.</td>
</tr>
<tr>
<td>KIN 5981</td>
<td>Research Methodology in Kinesiology, Recreation, and Sport</td>
<td>A-F only, 3 credit(s); prereq 3151 or equiv; Credit will not be granted if credit has been received for: REC 5981</td>
<td>Kihl, Lisa A</td>
<td></td>
</tr>
<tr>
<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Rodgerson, Richard W</td>
<td>Independent study under tutorial guidance.</td>
</tr>
<tr>
<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Konczak PhD, Juergen</td>
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<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Wade, Michael G</td>
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<tr>
<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Wiese-Bjornstal PhD, Diane</td>
<td></td>
</tr>
<tr>
<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Konczak PhD, Juergen</td>
<td></td>
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<tr>
<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Hoffman, Brandi L</td>
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<tr>
<td>KIN 5992</td>
<td>Readings in Kinesiology</td>
<td>A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent</td>
<td>Leitschuh, Carol A</td>
<td></td>
</tr>
</tbody>
</table>

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KIN 5992 Readings in Kinesiology
A-F only, 1-9 credits, max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: Ross, Stephen D
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credits, max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: Konczak PhD, Juergen
Description: Independent study under tutorial guidance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Dengel PhD, Donald Robert
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Ross, Stephen D
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Stoffregen, Thomas
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Spletzer, Elizabeth A
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Spletzer, Elizabeth A
Description: Graduate level focus on selected topics in physical education. Focus and design are mutually agreed upon and require instructor approval. With this particular instructor, the school based action research project for two semester credits is part of the Initial Teacher Licensure Program in K-12 Physical Education.
Style: 10% Lecture, 10% Discussion. individual conference
Grading: 100% reports/papers. following specified guidelines

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Dengel PhD, Donald Robert
Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Dengel PhD, Donald Robert
Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credits, max credits 6, 1 repeat allowed; prereq [Grad or MEd student in Kin], instr consent; Instructor: Dengel PhD, Donald Robert
Description: Selected topics in physical activity/human performance.
KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s); max credits 6, 1 repeat allowed; prerequisite Grad or MED student in KIN, instr consent; Instructor: Petit, Moira Anne
Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s); max credits 6, 1 repeat allowed; prerequisite Grad or MED student in KIN, instr consent; Instructor: Weiss, Maureen R
Description: Selected topics in physical activity/human performance.

KIN 6597 Clinical Experience II: Physical Education
A-F only, 4 credit(s); prerequisite 6596, initial licensure/MEd physical education student or instr consent; Instructor: Spletzer, Elizabeth A
Description: Second phase of three ten week student teaching experiences as part of the Initial Teacher Licensure Program in K-12 Physical Education. It involves half-day supervised teaching of physical education in an urban or suburban elementary, middle, or high school physical education setting. There is also a weekly seminar that meets on Monday of each week.

KIN 6598 Clinical Experience III: Physical Education
A-F only, 6 credit(s); prerequisite 6597, initial licensure/MEd physical education student or instr consent; Instructor: Spletzer, Elizabeth A
Description: Third phase of three ten week student teaching experiences as part of the Initial Teacher Licensure Program in K-12 Physical Education. It involves full day supervised teaching of physical education in an urban or suburban elementary, middle, or high school physical education setting. There is also a weekly seminar held on Monday of each week.

KIN 8122 Seminar: Exercise Physiology
A-F only, 2-6 credit(s); max credits 6, 1 repeat allowed; prerequisite 5122 or equiv or instr consent; Instructor: Petit, Moira Anne
Description: Classic and contemporary literature in exercise physiology and allied disciplines, emphasizing contributions of major leaders in the field and opportunities for interdisciplinary research.

KIN 8126 Seminar: Sport Psychology
A-F only, 3 credit(s); prerequisite 5126 or instr approval; Instructor: Wiese-Bjornstal, PhD, Diane
Description: Literature, theoretical constructs, research methodology, design. Focuses on student-selected topics/problems.

KIN 8211 Perception and Action
3 credit(s); prerequisite CEHD or Psy grad student or instr consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

KIN 8696 Internship: Applied Sport Psychology
S-N only, 3-6 credit(s); max credits 6; prerequisite 5126, 8126, Kin PhD student, instr consent; Instructor: Wiese-Bjornstal, PhD, Diane
Description: Supervised internship; emphasis on educational sport psychology approaches to athletic performance enhancement and psychological adjustment to sport injury.

KIN 8980 Graduate Research Seminar in Kinesiology
S-N only, 1 credit(s), max credits 9, 9 repeats allowed; prerequisite Grad Kin major, instr consent; Instructor: Serfass, Robert C
Description: Reporting and discussion of student and faculty research activity.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Buyse, Jo Ann
Description: Student may contact the instructor or department for information.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: LaVoi, Nicole Marie
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Ingraham, Stacy Jean
Description: Student may contact the instructor or department for information.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Serfass, Robert C
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Kan, Mary Jo
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Wade, Michael G
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Wiese-Bjornstal, PhD, Diane
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed; prerequisite Kin PhD student or instr consent; Instructor: Konczak, PHD, Juergen
Description: Research Problems in Kinesiology

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### KIN 8995 Research Problems in Kinesiology

- **S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed**
- **prereq Kin PhD student or instr consent**
- **Instructor:** Stoffregen, Thomas
- **Description:** Research Problems in Kinesiology

### KIN 8995 Research Problems in Kinesiology

- **S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed**
- **prereq Kin PhD student or instr consent**
- **Instructor:** Ross, Stephen D
- **Description:** Research Problems in Kinesiology

### KIN 8995 Research Problems in Kinesiology

- **S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed**
- **prereq Kin PhD student or instr consent**
- **Instructor:** Kihl, Lisa A
- **Description:** Research Problems in Kinesiology

### KIN 8995 Research Problems in Kinesiology

- **S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed**
- **prereq Kin PhD student or instr consent**
- **Instructor:** Petit, Moira Anne
- **Description:** Research Problems in Kinesiology

### KIN 8995 Research Problems in Kinesiology

- **S-N only, 1-9 credit(s), max credits 9, 9 repeats allowed**
- **prereq Kin PhD student or instr consent**
- **Instructor:** Weiss, Maureen R
- **Description:** Research Problems in Kinesiology

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### Korean

- **453 Folwell Hall**

#### KOR 1012 Beginning Korean

- **5 credit(s); prereq 1011; Credit will not be granted if credit has been received for: KOR 4002;**
- **Instructor:** Cho, Hangtae
- **Description:** Kor 1012 is the second half of the beginning Korean. This course is designed to assist students to develop mid-beginning level skills in the Korean language. These skills are speaking, listening, reading, and writing, as well as cultural understanding. Kor 1012 is designed for students who have already mastered the materials covered in Kor 1011. This course will focus on grammatical patterns, such as sentence structures, some simple grammatical points, and some survival level use of the Korean language. Additionally, speaking, reading, writing, and listening comprehension will all be emphasized, with special attention to oral speech. It is strongly recommended for each student to have at least one Korean native language partner so that you can immediately use the concepts, grammar and vocabulary we study in class. Application will be available at the Tandem Conversation Partner Program, @ #319 Nolte Hall, MN English Center.
- **Style:** lectures, listening lab, speaking assignments
- **Grading:** short quizzes and final exams, assignments, and class performance
- **Exam Format:** both written and oral

#### KOR 3022 Intermediate Korean

- **5 credit(s); prereq 3021; Credit will not be granted if credit has been received for: KOR 4004;**
- **Instructor:** Yoon, Sang-Seok
- **Description:** This course intends to provide students with four skills, speaking, reading, writing and listening, of Korean language at intermediate level. Essential expressions and vocabularies will be introduced for students to adjust themselves in Korea if they go study abroad in Korea. Also, cultural aspect of the language will be discussed in the class for better understanding of Korean language and society.

#### KOR 3032 Third Year Korean

- **4 credit(s); prereq 3031;**
- **Instructor:** Yoon, Sang-Seok
- **Description:** Student may contact the instructor or department for information.

#### KOR 4002 Beginning Korean

- **3 credit(s); prereq 4001, grad student; Credit will not be granted if credit has been received for: KOR 1012;**
- **Instructor:** Cho, Hangtae
- **Description:** This course intends to provide students with four skills, speaking, reading, writing and listening, of Korean language at intermediate level. Essential expressions and vocabularies will be introduced for students to adjust themselves in Korea if they go study abroad in Korea. Also, cultural aspect of the language will be discussed in the class for better understanding of Korean language and society.

#### KOR 4004 Intermediate Korean

- **3 credit(s); prereq 4003, grad student; Credit will not be granted if credit has been received for: KOR 3022;**
- **Instructor:** Yoon, Sang-Seok
- **Description:** This course intends to provide students with four skills, speaking, reading, writing and listening, of Korean language at intermediate level. Essential expressions and vocabularies will be introduced for students to adjust themselves in Korea if they go study abroad in Korea. Also, cultural aspect of the language will be discussed in the class for better understanding of Korean language and society.

#### KOR 4006 Third Year Korean

- **3 credit(s); prereq 4005, grad student;**
- **Instructor:** Yoon, Sang-Seok
- **Description:** This course is focused on enhancing students’ Korean to intermediate-advanced level by widening vocabularies and practicing more complex structure in Korean language. More readings in Korean text will help students’ better understanding of Korean’s sentiments. Discussions on Korean culture and society will widen for students to understand Korea. Students will also learn basic Chinese characters which are essential for learning Korean language.

#### KOR 4042 Advanced Readings in Modern Korean

- **4 credit(s); prereq 4041 or equiv or instr consent;**
- **Instructor:** Cho, Hangtae
- **Description:** Student may contact the instructor or department for information.

#### KOR 5140 Readings in Sino-Korean Texts

- **3 credit(s), max credits 9, 3 repeats allowed; prereq 3032 or equiv or instr consent;**
- **Instructor:** Cho, Hangtae
- **Description:** This course is designed to increase the students’ proficiency to advanced-high level in all aspects of modern Korean with a special emphasis on Sino Korean; Sino-Korean vocabulary and characters are necessary for advanced and superior level of knowledge in Korean. Sino-Korean characters are used differently from the same Chinese characters used in contemporary China in terms of pronunciation, meaning, and word formation. This course aims to prepare students for research or employment in a variety of Korea-related fields. Text materials are drawn from authentic sources including modern Korean literature, film, intellectual history, and readings on contemporary issues. Radio and TV broadcasts will also be included in the teaching materials. Texts will be selected, in part, according to student interests. With the instructor's guidance, students will conduct research projects based on specialized readings in their own fields of study. The research projects will be presented both orally and in written form at the end of the semester. This course will be mostly taught in Korean. 3 repeats are allowed.

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**Laboratory Medicine and Pathology**

**760 Mayo (MMC 609)**
LAMP 4177 Pathology for Allied Health Students
3 credit(s); prerequisite [One anatomy course, one physiology course, registered in allied health program] or instructor consent;

Instructor: Lebahn, Fran

Description: Student may contact the instructor or department for information.

LAMP 4177 Pathology for Allied Health Students
3 credit(s); prerequisite [One anatomy course, one physiology course, registered in allied health program] or instructor consent;

Instructor: Wilke, Mark Steven

Description: The first part of this large, lecture course covers general pathology; this is followed by organ system pathology. The class meets for 3 lecture hours per week (M-W-F, from 8:00-8:50 AM), earning 3 credits for the semester. The course is divided into five units, each followed by a unit examination. There is no course comprehensive exam. Students enrolled are primarily in allied health programs of Nursing and Medical Technology. The course is taught by a variety of lecturers, each covering his/her own area of expertise. Purchase of the required course handout package and the required course textbook is necessary.

Style: 100% Lecture.

Grading: 100% quizzes. Scores from the 5 unit exams are used for the final grade.

Exam Format: Multiple Choice

Landscape Architecture
144 Rapson Hall

LA 1202 Making the Mississippi
A-F only, 3 credit(s); meets CLE req of Citizenship/Public Ethics Theme;

Instructor: Nunnulla, Patrick

Description: “Making the Mississippi” examines how the Mississippi River has been shaped and re-shaped as a human landscape for the past two hundred years or so. The course focuses on community redevelopment projects as case studies of public engagement in urban design. Students will gain first-hand knowledge of a number of Mississippi-River related projects currently underway in the Twin Cities region and will develop models for increased public participation by particular communities. This course will use WebCT.

Style: 65% Lecture, 35% Discussion.

Grading: 40% mid exam, 20% final exam, 40% special projects.

Exam Format: Short answer

LA 1301 Introduction to Landscape Architecture Drawing
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: LA 5301; meets CLE req of Other Humanities Core;

Instructor: Agee, Bradley Steele

Description: Student may contact the instructor or department for information.

LA 1401 The Designed Environment
A-F only, 3 credit(s);

Instructor: Agee, Bradley Steele

Description: The course is the designed environment - the intentionally designed places we frequent and inhabit. Efforts will be directed towards learning to see, design in the everyday world in order to understand the ideas and principles on which the designed environment is built. The course will be looking at how the professions of architecture, landscape architecture and urban design (among others) combine to influence the shape and function of our homes, cities and region. Observe and critique the interaction between human needs/customs with biophysical systems in which we live. Students will be asked to look at designed spaces for themselves. Lectures and readings will support investigations.

Grading: 30% mid exam, 30% final exam, 40% laboratory evaluation.

LA 3002 Informants of Creating Landscape Space
A-F only, 3 credit(s); prerequisite 3001, Arch 3401, 3501;

Instructor: Sokolski, Tracey R

Description: Student may contact the instructor or department for information.

LA 3204 Landscape Ecology
A-F only, 3 credit(s); prerequisite EEB 3001 or equiv;

Instructor: Musacchio, Laura R

Description: This course will help you to develop greater insights into bioregional practice and how it responds to the landscape ecology of great bioregions. The goal for this course will be learning more about the scientific and cultural basis for bioregional design and landscape sustainability. A prerequisite for this course is EEB 3001 Ecology and Society.

LA 3501 Environmental Design and Its Biological and Physical Context
A-F only, 3 credit(s); meets CLE req of Environment Theme;

Instructor: Roos, Stephen John

Description: Student may contact the instructor or department for information.

LA 5203 Ecological Dimensions of Space Making
A-F only, 6 credit(s); prerequisite LA major or instructor consent; recommended for both BED and Grad students;

Instructor: Pitt, David George

Description: Student may contact the instructor or department for information.

LA 5204 Landscape Ecology
3 credit(s); prerequisite B.E.D. accelerated status or LA grad student or instructor consent;

Instructor: Musacchio, Laura R

Description: Our goal for the semester will be to develop your understanding about the theories and principles of holistic landscape ecology, and how this knowledge can help you learn more about people, nature and environmental stewardship in metropolitan landscapes. In this class, metropolitan landscapes include not only urban areas but also the rural areas that provide natural resources for people. During the semester, we will explore questions about the relationship among people, nature, and sustainability.

LA 5372 Computer Methods II
S-N only, 1 credit(s); prerequisite Arch/LA 5371, LA grad or instructor consent; credit will not be granted if credit has been received for: ARCH 5372;

Instructor: Colberg, Donald Alexander

Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prerequisite LA major or instructor consent; credit will not be granted if credit has been received for: ARCH 5372;

Instructor: Martin, Roger B

Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prerequisite B.E.D. accelerated status or LA grad or instructor consent;

Instructor: Krinke, Rebecca Jean

Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prerequisite B.E.D. accelerated status or LA grad or instructor consent;

Instructor: Koepe, John Albert

Description: Student may contact the instructor or department for information.

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LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Galatowitsch,Susan M
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Neckar,Lance M
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Hewitt,Clinton N
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Sykes,Robert D
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Martin,Roger B
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Musacchio,Laura R
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Galatowitsch,Susan M
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Pitt,David George
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Neckar,Lance M
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Sykes,Robert D
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Miller,Kristine Frances
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Musacchio,Laura R
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Martin,Roger B
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Krinke,Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Koepke,John Albert
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Galatowitsch,Susan M
Description: Student may contact the instructor or department for information.
LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Krinke, Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.
LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Schlepp, Nichole
Description: Student may contact the instructor or department for information.

LA 8205 Urban Form Options: Landscape Architecture Studio
2-3 credit(s), max credits 3, 1 repeat allowed; prereq Grad LA major or instr consent;
Instructor: Sykes, Robert D
Description: This course is a survey of law and real estate finance as practical tools for improving physical design for landscape architects, architects, urban planners and urban designers. Learn the basics of zoning and planning law, historical concepts of land and land ownership, special development districts, tax increment financing, community associations, cooperatives, restrictive covenants (deed restrictions) as design tools. Urban designers can easily apply them as part of design to help get projects approved by government, get them financed (and thus built), imbue them with lasting aesthetic integrity, and make them more appealing to clients and users over the long run. You will read and discuss landmark law cases, learn about land tenure and historical approaches to land value and management, develop two financial pro formas for development projects, learn how to buy land, and learn how these tools can make designs work from both the public and private points of view. Meets for first seven weeks of semester and last two weeks (four week break).

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Martin, Roger B
Description: Meaning and Making - (Th 11:15-2:00 pm) -LA 8400, 004; 3 cr. This Seminar, first offered from 1998-2006 by Landscape Architecture Professors Emeritus Roger Martin and Roger Clemence, took a one year break in 2007. In 2008, it will be resurrected, but with the major enhancements of added instructional and discussion leadership (for the first time) from former LA 8400 students (now MLA graduates) Anna Claussen and Tony Siebenaler-Ransom. Employing a combination of readings, writings, site explorations, place analyses, a PLACE JOURNAL filled with personal place insights and the probing, via slide presentations, of ILLUSION IN PLACE CREATION, the "team-of-four" will invite students to dig into pasts and press forward into futures as a way to better understand the roles of physical and social PLACE (its Meaning and Making) in each of their lives and in the lives of others. There are certain universalities in PLACE PERCEPTIONS that we'll expect to vary.
encounter during the semester; but the nuances of difference found in contrasting filters, changeable lenses, the implications of PERSONAL PLACE HERITAGE, and the potential impacts of GLOBAL WARMING and ENERGY SOURCE REVISIONS also will receive close scrutiny as the seminar meetings and explorations move from Winter into Spring. Enrollment will be capped at a maximum of 16 students, with most drawing from the graduate level in Landscape Architecture; but a limited number of openings will be held for graduate degree candidates from related disciplines, if given instructor permission. (Please contact Roger Clemence at (612) 920-9234, for a non-LA grad student access). General questions about the seminar also can be directed to Roger Clemence by phone or by email at cleme001@umn.edu.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Krinke, Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Clausen, Anna Elizabeth
Description: Meaning and Making - (Th 11:15-2:00 pm) - LA 8400, 004; 3 cr. This Seminar, first offered from 1998-2006 by Landscape Architecture Professors Emeritus Roger Martin and Roger Clemence, took a one year break in 2007. In 2008, it will be resurrected, but with the major enhancements of added instructional and discussion leadership (for the first time) from former LA 8400 students (now MLA graduates) Anna Clausen and Tony Siebenaler-Ransom. Employing a combination of readings, writings, site explorations, place analyses, a PLACE JOURNAL filled with personal place insights and the probing, via slide presentations, of ILLUSION IN PLACE CREATION, the "team-of-four" will invite students to dig into pasts and press forward into futures as a way to better understand the roles of physical and social PLACE (its Meaning and Making) in each of their lives and in the lives of others. There are certain universals in PLACE PERCEPTIONS that we'll expect to encounter during the semester; but the nuances of difference found in contrasting filters, changeable lenses, the implications of PERSONAL PLACE HERITAGE, and the potential impacts of GLOBAL WARMING and ENERGY SOURCE REVISIONS also will receive close scrutiny as the seminar meetings and explorations move from Winter into Spring. Enrollment will be capped at a maximum of 16 students, with most drawing from the graduate level in Landscape Architecture; but a limited number of openings will be held for graduate degree candidates from related disciplines, if given instructor permission. (Please contact Roger Clemence at (612) 920-9234, for a non-LA grad student access). General questions about the seminar also can be directed to Roger Clemence by phone or by email at cleme001@umn.edu.

LA 8400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Krinke, Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.
LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Miller, Lance M
Description: Student may contact the instructor or department for information.

LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.
LA 8404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad LA major or instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture
A-F only, 1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture
A-F only, 1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture
A-F only, 1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture
A-F only, 1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 8575 The Art and Ecology of Landscape Detail
3 credit(s); prereq Grad LA major or instr consent;
Instructor: Favour, Joseph Richard
Description: Student may contact the instructor or department for information.
LAT 1001 Beginning Latin I
5 credit(s); Credit will not be granted if credit has been received for: LAT 5001;
Instructor: STAFF
Description: Latin, the language of the ancient Romans, has served as a means of communication for over two thousand years. It is not only the chief language of one of the world's major civilizations, but also an international language for centuries after Rome's fall, the ancestor of the Romance languages, and an important influence on English. The aim of Beginning Latin is to prepare you to read unadapted Latin texts by providing a solid grounding in grammar and vocabulary along with oral and written practice. With this foundation you will be able to read a wide range of ancient, medieval, and Renaissance authors. In addition, Latin 1001 will help strengthen your grasp of English grammar and vocabulary. There is no prerequisite for this course.
Style: 50% Lecture, 50% Discussion. recitation
Exam Format: translation, grammar

LAT 1002 Beginning Latin II
5 credit(s); prereq Grade of at least [C- or S] in 1001 or instr consent;
Instructor: STAFF
Description: Latin, the language of the ancient Romans, has served as a means of communication for well over two thousand years. It is not only the chief language of one of the world's major civilizations, but also an international language for centuries after Rome's fall, the ancestor of the Romance languages, and an important influence on English. The aim of Beginning Latin is to prepare you to read unadapted Latin texts by providing a solid grounding in grammar and vocabulary along with oral and written practice. With this foundation you will be able to read a wide range of ancient, medieval, and Renaissance authors. In addition, Latin 1002 will help strengthen your grasp of English grammar and vocabulary. The prerequisite for this course is completion of Latin 1001 with a grade of C- or higher (or S) or instructor consent.
Style: 50% Lecture, 50% Discussion.
Exam Format: translation, grammar

LAT 3004 Intermediate Latin Poetry: Vergil
4 credit(s); prereq 3003 or 3113 or dept consent credit will not be granted if credit already received for: Lat 3300, Lat 3114;
Instructor: STAFF
Description: Selections from Vergil's Aeneid for students who have had at least three semesters of Latin; introduction to Latin meter. Prerequisite: completion of Latin 3003 with a grade of C- or higher (or S) or instructor consent.
Style: 40% Lecture, 30% Discussion. Recitation
Exam Format: Short answer and essay

LAT 5004 Intermediate Latin Poetry for Graduate Students
3 credit(s); prereq [5003 or equiv], grad student;
Instructor: Gustafson,Mark Timothy
Description: Student may contact the instructor or department for information.

LAT 5004 Intermediate Latin Poetry for Graduate Students
3 credit(s); prereq [5003 or equiv], grad student;
Instructor: Krevans,Nita
Description: Student may contact the instructor or department for information.

LAT 5004 Intermediate Latin Poetry for Graduate Students
3 credit(s); prereq [5003 or equiv], grad student;
Instructor: Cole,Spencer E
Description: Student may contact the instructor or department for information.

LAT 5100 Advanced Reading
3 credit(s), max credits 18, 6 repeats allowed; prereq [3004, at least two years of college level Latin] or dept consent;
Instructor: Gallia,Andrew B
Description: Apart from Cicero and Vergil, few Latin authors have enjoyed the fame and influence of the historian Titus Livius. In this course, we will read extensively from book six of Livy's monumental Ab urbe condita. Additional readings and discussion will be used to situate the author and his text in their literary and historical context.

LAT 5800 Sight Reading for Graduate Students
S-N only, 1 credit(s), max credits 6, 6 repeats allowed; prereq Enrolled in a grad program in Department of Classical/Near Eastern Studies;
LAT 8200 Readings in Latin Verse
3 credit(s), max credits 18, 6 repeats allowed; prereq Advanced grad student;
Instructor: Nappa, Christopher
Description: Ovid's Metamorphoses, once neglected, has become one of the most studied texts in classical Latin. This course will cover about half the poem in Latin and the whole thing in English translation. Topics to be explored include what the work has to say about the gods, political power, and especially art and artists. We'll also examine certain of Ovid's stories in relationship to their Greek or earlier Latin models. Some of the questions we'll ask have to do with the twisted nature of so many of these stories of love, the poem's narrative strategies, the frequent depictions of rape, and the relationship of the poem to Ovid's other works.

Latin American Studies
214 Social Sciences Tower

LAS 3402W Modern Latin America 1825 to Present
4 credit(s); Credit will not be granted if credit has been received for: HIST 3402W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This course surveys developments in Latin America from the Enlightenment and Age of Independence to the rise of bureaucratic authoritarianism (ca. 1750-present). The course will focus on the rise of the nation-state, art, culture, and diplomatic relations within Hispanic America. Themes will include race, class, gender, sexuality, and space.
Grading: 20% final exam, 50% reports/papers, 10% class participation, 20% other evaluation. Informal writing assignments.
Exam Format: Essay

Law School
285 Mondale Hall

LAW 6008 Legislation
A-F only, 3 credit(s);
Instructor: Nussbaum, Kirsten Ann
Description: Role of legislation and the legislative process in American law. Relationship between legislation and the common law; formulation of legislative policy; statutory interpretation and statutory implementation.

LAW 6017 Humphrey Law Seminar
A-F only, 2-3 credit(s), max credits 6;
Instructor: Weissbrodt, David
Description: Student may contact the instructor or department for information.

LAW 6021 Seminar: LL.M. Legal Research and Writing
A-F only, 2-3 credit(s), max credits 6; prereq LL.M. student;
Instructor: STAFF
Description: How to conduct legal research, interpret statutes, analyze cases, and write research papers and legal memoranda. Written English, style/form used by U.S. lawyers to present a legal argument.

LAW 6025 Wrongful Convictions
A-F only, 2 credit(s);
Instructor: STAFF
Description: Causes of wrongful convictions. Students practice law in safe, classroom setting. Run in conjunction with Innocence Project of MN.

LAW 6028 LL.M. Judicial Observation
P-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq LL.M. student;
Instructor: STAFF
Description: Students work with a judge and observe how our court systems work in the United States

LAW 6029 Introduction to Roman Law
A-F only, 3 credit(s);
Instructor: Sheets, George A
Description: This course is intended to serve as a general introduction to Roman private law. The initial part of the semester will be spent introducing: (1) the sources of Roman private law, (2) private law procedure, with a focus on the formulary system of civil procedure, and (3) an overview of substantive law doctrines, and (4) the influence of Roman law on European legal traditions. We will then turn to more detailed consideration of one substantive area of Roman private law: property law. This topic will be explored by means of the "case-book" method: in-class discussion of issues arising from actual and hypothetical Roman fact situations taken from the Roman juristic literature. We will also read a trial speech by Cicero, in a lawsuit dealing with property law issues. Roman property law largely informs all the modern European civil law systems, and has also provided the source for a number of common law doctrines.
Style: 35% Lecture, 65% Discussion.
Grading: 30% mid exam, 50% final exam, 20% class participation.

LAW 6039 Cases and Nations
A-F only, 3 credit(s);
Instructor: Stein, Robert A
Description: Student may contact the instructor or department for information.

LAW 6051 Business Associations/Corporations I
A-F only, 4 credit(s);
Instructor: STAFF
Description: The initial part of this course is an introduction to the general law of multi-person unincorporated business organizations, principally partnerships, limited partnerships and limited liability companies. Matters covered include the procedures for forming such organizations and the rights and obligations of the participants as among themselves and with respect to third persons. The remaining class hours constitute the first portion of the basic Corporations course, and will cover such matters as corporate organization; the distribution of powers among the corporate board of directors, its officers and its stockholders; the proxy system; control devices in the close corporation; and the fiduciary duties of directors, officers and controlling shareholders. Matters dealing with "corporate finance" (issuance of shares, payment of dividends, and corporate reorganizations) are covered Corporations II.

LAW 6052 Sales
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: The study of contracts for the sale of goods under Article 2 of the Uniform Commercial Code; the problems involve formation of such contracts, the terms, the mechanics of performance, and the remedies for various defaults.

LAW 6055 Advanced Corporate Law
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course will focus on corporate finance and reorganization. Specifically, the course will explore: methods of financing the corporate enterprise including various capital stock structures, term loans, bonds and debentures; payments to stockholders by way of dividends, redemptions or purchase of shares; and reorganizations including mergers, sales of assets and recapitalization. The course may also familiarize students with the use, advantages and disadvantages of economic
analysis in resolving the problems and questions raised by discussion of the before-mentioned subject areas.

**LAW 6057 Judicial Externship**  
**P-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;**  
**Instructor: STAFF**  
**Description:** Each student is assigned to a judge and serves as a part-time law clerk for one semester. Positions are available with federal district, bankruptcy, and magistrate judges, with state court of appeals and district court judges, and with tribal courts. Every effort is made to place students according to their expressed preferences among the courts. The students prepare research memoranda, observe judicial proceedings, and participate in the drafting of opinions and orders. A student will work for a judge for 100 hours (2 credits) or for 150 hours (3 credits), as agreed with the judge. In addition, students will periodically attend a one hour seminar in which readings on the judicial process will be discussed and will view a judicial training session. Enrollment is limited to 30 students. The periodic class meetings will be held during the noon hour. A complete schedule will be distributed at the first class meeting. You should arrange your class schedule so you have several large blocks of time available to work for a judge; free mornings are especially important for attending court hearings.

**LAW 6059 Seminar: Constitutional Law, Theories of Freedom of Expression**  
**A-F only, 3 credit(s); Credit will not be granted if credit has been received for: JOUR 8678;**  
**Instructor: STAFF**  
**Description:** Student may contact the instructor or department for information.

**LAW 6100 Taxation I**  
**A-F only, 3-4 credit(s);**  
**Instructor: STAFF**  
**Description:** This basic course in federal income taxation introduces the student to the Internal Revenue Code and the income taxation of individuals through the following topics: definition of income, relevant accounting concepts, exclusions, deductions, income splitting, sales and dispositions of property, amortization, capital losses, and current issues of tax policy.

**LAW 6109 Creditors’ Remedies/Secured Transactions**  
**A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed;**  
**Instructor: STAFF**  
**Description:** Student may contact the instructor or department for information.

**LAW 6114 Partnership Taxation**  
**A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;**  
**Instructor: STAFF**  
**Description:** Federal income taxation of partnerships and limited liability companies including formation, operation and management, distributions, allocations, sales and liquidations of entity interests, and terminations.

**LAW 6115 Pretrial Skills: Lawyer’s Process**  
**A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;**  
**Instructor: STAFF**  
**Description:** This course focuses on pre-trial advocacy skills. Practically every lawyer interviews and counsels clients and engages in negotiation of transactions or resolution of disputes. Theoretical and practical exploration of these topics and other topics including fact development and case planning, alternative dispute resolution, discovery and motion practice form the basis for this course. Each topic will be explored with readings and simulated exercises. Specific topics may vary from year to year.

**LAW 6118 Criminal Appeals Clinic**  
**A-F only, 2 credit(s);**  
**Instructor: STAFF**  
**Description:** Students will prepare an appellate brief on behalf of an indigent criminal defendant under the supervision of the Office of the State Public Defender. Students will be required to evaluate the trial record, research possible legal issues, and write an appellate brief that will be submitted to the Minnesota Court of Appeals. Stringent time requirements for the filing of the brief as set by the appellate court must be met. The class will meet as a group two or three times; students also will meet with the supervising attorney individually prior to filing the brief.

**LAW 6120 Federal and State Courts**  
**A-F only, 3 credit(s);**  
**Instructor: STAFF**  
**Description:** Student may contact the instructor or department for information.

**LAW 6152 Federal Jurisdiction**  
**A-F only, 3 credit(s);**  
**Instructor: Stras, David Ryan**  
**Description:** This three-credit course will cover approximately half of a traditional five- or six-credit “Federal Courts” curriculum; the other half is covered in “Federal and State Courts.” Students may take either course or both courses, in any order. This course will explore issues that were raised in Constitutional Law and Civil Procedure regarding federal courts and the interactions between the federal and state judicial systems. Topics discussed may include Congressional power over jurisdiction, legislative courts, justiciability, appellate jurisdiction, Supreme Court review over state court decisions, and general principles of federal subject matter jurisdiction. This course is important for anyone planning a judicial clerkship or a legal career that includes litigation in federal courts.

**LAW 6153 Wills and Trusts**  
**A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed;**  
**Instructor: STAFF**  
**Description:** This course deals with donative freedom. It covers interstate succession, wills, trusts, the rudiments of gifts and estate taxation, and future interests. It also raises professional responsibility issues unique to the estate planning process. The goal of the course is to allow students to become familiar with the field and to prepare them for study in other courses and seminars.

**LAW 6201 Land Use Planning**  
**A-F only, 3 credit(s);**  
**Instructor: Burkhart, Ann M**  
**Description:** Student may contact the instructor or department for information.

**LAW 6202 Conflicts**  
**A-F only, 3 credit(s);**  
**Instructor: Cooper, Laura J**  
**Description:** How does a court decide what law to apply in a case with multi-state aspects? When is a judgment of another court of appeals, other courts of appeals, or district courts given full faith and credit? How should the court handle cases involving the preferences of multiple states? Students will learn these and other concepts and techniques of multi-state conflict of laws and litigation.

**LAW 6206 Federal Courts**  
**A-F only, 3 credit(s);**  
**Instructor: Stras, David Ryan**  
**Description:** This half-semester course will cover the first half of the traditional five- or six-credit “Federal Courts” curriculum. The goal of the course is to allow students to become familiar with the field and to prepare them for study in other courses.

**LAW 6211 Federal Securities Regulations**  
**A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed;**  
**Instructor: Orfield Jr, Myron W.**  
**Prereq:** Business Associations/Corporations I;  
**Description:** This course covers concepts and problems in the regulation of securities transactions under the Securities Act of 1933, the basic federal statute governing rights, duties, and remedies in connection with the financing of business operations through the distribution of securities to the public. Topics covered will include the definition of a security and the exemptions from federal registration (crucial knowledge for the small business advisor), the registration process, the contents of the prospectus, civil liabilities, and the applicability of the 1933 Act to secondary transactions (sales of securities by persons other than the issuer).
issuing entity). Because of the expansive scope of federal securities law and the draconian nature of the penalties imposed even for "innocent" violations, knowledge of this material is vital not only for business lawyers who advise large corporations but also those whose business clients are closely held. The course will not focus, however, on litigation strategy or technique. Classes are problem oriented.

**LAW 6218 Criminal Procedure**
A-F only, 3 credit(s);
Instructor: STAFF
Description: Procedural aspects of the investigation and adjudication of criminal violations. Fourth, Fifth and Sixth Amendment Federal Constitutional limitations on the gathering and presenting of evidence and at trial will be emphasized.

**LAW 6219 Evidence**
A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: STAFF
Description: A study of relevance, admission and exclusion of evidence, direct and cross-examination, judicial notice, hearsay, expert testimony, burdens of proof and presumptions, privileged communications. A study of relevance, admission and exclusion of evidence, direct and cross-examination, judicial notice, hearsay, expert testimony, burdens of proof and presumptions, privileged communications.

**LAW 6225 Basic Paten Patent Litigation**
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: The course addresses a variety of legal issues relating to patent litigation, including choice of law, personal jurisdiction, subject matter jurisdiction, venue, declaratory judgment actions, Rule 11, specificity of infringement allegations in the complaint, claim construction evidence and hearings, infringement theories in the litigation context, principal affirmative defenses used in litigation, injunctions, damages, willfulness, and other legal issues. The course addresses a variety of legal issues relating to patent litigation, including choice of law, personal jurisdiction, subject matter jurisdiction, venue, declaratory judgment actions, Rule 11, specificity of infringement allegations in the complaint, claim construction evidence and hearings, infringement theories in the litigation context, principal affirmative defenses used in litigation, injunctions, damages, willfulness, and other legal issues.

**LAW 6234 Natural Resources**
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

**LAW 6245 Interviewing, Counseling , and Negotiating**
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
prereq dept consent ;
Instructor: STAFF
Description: This course will focus on basic skills necessary for all lawyers. We will discuss and do simulated exercises in each of the skills, focusing on skill development and self-reflection to improve skills. The course will emphasize planning, performance and reflection over a range of civil and criminal cases.

**LAW 6402 Food and Drug Law**
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: The primary focus of the class will be on the Food, Drug and Cosmetic Act and the FDA. In addition, time will be spent on specific food and drug aspects of other areas of the law. For example, the class will review the special rules and cases in the product liability field relating to food and drugs and the interface between food and drug regulation and subjects such as environmental law, the practice of medicine, and free choice in medical care.

**LAW 6600 Professional Responsibility**
A-F only, 2-3 credit(s);
Instructor: STAFF
Description: Examination of the role and function of the legal profession in our society and the principles, standards and rules governing ethics of the profession and their enforcement.

**LAW 6601 International Business Transactions**
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

**LAW 6603 Intellectual Property**
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq dept consent ;
Instructor: STAFF
Description: This course provides a broad survey of the laws governing most areas of intellectual property including trademark, trade secret, copyright, computer chip protection and some patent law, as well as a survey of laws governing unethical and deceptive business practices. An examination of the extent and limits of federal preemption of state laws governing intellectual property rights forms a secondary (but important) part of the course. There are no prerequisites to this course. An interest in business practices and problems arising from rivalry among business firms will be helpful as will be an interest in stimuli to innovation in a competitive economy. Most of the material is case law, but the coursework will require that students become familiar with statutory provisions governing trademarks, copyrights, patents and computer chip protection.

**LAW 6604 Family Law**
A-F only, 3 credit(s);
Instructor: STAFF
Description: Family Law. This course examines how the law regulates the creation and dissolution of family relationships, and the legal rights and responsibilities that family members have because of their familial status. These issues are examined in both modern and historical contexts, with particular emphasis on marriage. Topics include: interracial marriage and adoption, same-sex marriage and parenthood, marriage between blood relatives, polygamy and common law marriage, marriage and parenthood under the law of slavery, legitimacy and illegitimacy, surrogate motherhood, economic consequences of divorce, dissolution of nonmarital relationships, termination of parental rights, federal benefits and disabilities tied to family status, the prohibition on interspousal contracts for domestic services, the marital rape exemption, domestic violence, child abuse, and child custody and support.

**LAW 6606 Administrative Law**
A-F only, 3 credit(s);
Instructor: STAFF
Description: Law governing judicial review of the decisions of government officials and agencies. Decisions of federal and state officials subject to various kinds of judicial review range from regulatory decisions by public service commissions governing the rates of suppliers of electricity and local telephone service to decisions governing entitlement to benefits under welfare programs. Some decisions have wide-ranging social and economic effects such as rulemaking decisions under the Clean Air Act while the impact of other decisions may be limited to a few individuals. The course is designed to assist motivated students to acquire the skills necessary to master a complex and difficult body of law.

**LAW 6608 Trademarks**
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

**LAW 6610 Unfair Competition**
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: Unfair Competition (2 credits): This course provides an overview of the law of unfair competition. Likely
topics include false advertising and product disparagement; tortious interference with contract and with prospective business relations; misappropriation, idea law, and trade secret law; the right of publicity, cybertrespass; and federal preemption of state unfair competition laws. The course does not provide comprehensive coverage of antitrust, trademarks or trade dress, or consumer protection law.

LAW 6613 Copyright
A-F only, 3 credit(s);
Instructor: Cotter, Thomas Francis
Description: This course provides a detailed introduction to the basic law of copyright - traditional copyright subject matter, the concept of originality and authorship, copyright transfers (and terminations of transfers), infringement, and fair use. The course coverage excludes patent law, except in brief overview, and only touches briefly upon related areas of intellectual property law, such as misappropriation, trade secret, and unfair competition law. Copyright law is now important well beyond the entertainment industry, although many of the decisions we study derive from that genre. (Humphrey Bogart, Cole Porter, George Harrison, J.D. Salinger, Superman, Mickey Mouse, and many other luminaries make cameo appearances in our cases.) Copyright (and copyright-like schemes) have increasingly become a necessary tool of the general practitioner as a result of the explosive growth in economic value of information-based products, like computer software and digital networks and databases. The lawyer ignorant of basic copyright principles will be increasingly handicapped in many areas of practice, such as negotiating technology transfers, drafting contractual rights, developing schemes of protection and privacy, distinguishing criminal from non-criminal behavior, and in litigation. But more important than all that, the cases and materials are lots of fun!

LAW 6615 Jurisprudence
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course will be a general survey course of American legal movements and conceptions of the law. The course will examine foundational legal questions: What is law, why are we obligated to follow laws, and when if ever, are we not? What is the Rule of Law? When if ever can we condemn a law as unjust and, if so, must we obey it? We will also examine how different legal movements have attempted to answer these questions from the beginnings of "legal science" and formalism; to the Legal Realists and the responses to them; to the more recent movement to unite law with moral philosophy; to Critical Legal Studies; and responses to the Critical Studies movement. We will compare and contrast these movements with basic conceptions of the law-positivism and natural rights.

LAW 6618 Trial Practice
A-F only, 3 credit(s); prereq Evidence;
Instructor: STAFF
Description: Selected problems in litigation. Exercises in jury selection, introduction of evidence, expert testimony, direct and cross examination and impeachment of witnesses, opening statements and closing arguments.

LAW 6622 Physical Evidence
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6628 Advanced Trial Practice
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: This course will be to help students learn to recognize and anticipate a large number of important evidentiary issues which can arise during a trial, and to help them learn how to deal with the issues when they arise. Students will perform direct and cross examinations, opening and closing statements and voir dire. Students will be expected to write brief motions in limine and short memoranda on evidentiary issues to learn to present concise persuasive memoranda to a court before and during trial.

LAW 6629 Judicial Process and Administration
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6631 Employment Discrimination
A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6645 Feminist Legal Theory
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6703 Seminar: Local Economic Development
A-F only, 2 credit(s);
Instructor: Street, Nena Fox
Description: Student may contact the instructor or department for information.

LAW 6800 Seminar: International Contracts
A-F only, 3 credit(s);
Instructor: STAFF
Description: The seminar presents students with a simulated international business transaction. Students will be asked to represent the businesses involved. They will be asked to inform themselves about the legal and practical problems involved in the transaction, and then to negotiate a contract dealing with those problems.

LAW 6808 Seminar: Street Law
A-F only, 2 credit(s);
Instructor: STAFF
Description: This seminar engages law students in service to the community through teaching law to students in local schools. It also increases law student knowledge of the areas of law that are of interest to high school students such as criminal law and procedure, Constitutional law, and practical law (landlord tenant law, consumer law, family law & employment law) increases law student skills in explaining law to non lawyers and builds professionalism.

LAW 6811 Seminar: Complex Litigation
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6815 Seminar: Inter-American Human Rights System
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6816 Seminar: State Constitutional Law
A-F only, 2 credit(s);
Instructor: Schultz, David A
Description: Student may contact the instructor or department for information.

LAW 6817 Seminar: Advanced Estate Planning
A-F only, 2 credit(s);
Instructor: STAFF
Description: Building on the student's knowledge of the underlying estate, gift, and income tax systems, this course will focus on the day to day life of the estate planning lawyer, from the initial client interview and analysis of financial data to the implementation of appropriate planning techniques based upon a
client's situation and assets to preparation of an estate tax return (and everything in between).

**LAW 6818 Seminar: White Collar Crimes**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** Overview of theory and practice of white collar litigation in the criminal arena. Survey the basic principles and theories underlying this area of law.

**LAW 6822 Seminar: Legislative Process**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** This seminar will be studying "Legislative Process" with a definite hands on approach. Using selective readings, Supreme Court rulings on "Legislative Intent", MN Court rulings and legislative materials from MN and federal Legislatures as foundation. We will go to the MN State Capitol meet with House & Senate political leaders.

**LAW 6827 Seminar: Women’s International Human Rights**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** This seminar deals with the history of women's human rights, feminist perspectives on international law, the Women's Convention, reproductive rights, domestic violence, female genital mutilation, trafficking in women, economic rights, women in development, women refugees, women's human right in the U.S., and the role of nongovernmental organizations.

**LAW 6830 Seminar: Corporate Compliance**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** Student may contact the instructor or department for information.

**LAW 6833 Alternative Dispute Resolution**

- **A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;**
- **Instructor:** STAFF
- **Description:** Student may contact the instructor or department for information.

**LAW 6837 Seminar: Contract Drafting**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** This seminar will take the contract principles that students learned in their first year and build upon them in a practical way. Students will review and revise contracts, draft sample provisions, draft contracts from "scratch" and discuss options for managing risk through effective drafting. This seminar will take the contract principles that students learned in their first year and build upon them in a practical way. Students will review and revise contracts, draft sample provisions, draft contracts from "scratch" and discuss options for managing risk through effective drafting. Prerequisites: None

**LAW 6838 Seminar: American Indian Law**

- **A-F only, 2 credit(s);**
- **Instructor:** Howland, Joan S
- **Description:** Student may contact the instructor or department for information.

**LAW 6839 Seminar: Supreme Court**

- **A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;**
- **Instructor:** STAFF
- **Description:** Student may contact the instructor or department for information.

**LAW 6842 Seminar: Advanced Criminal Procedure**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** This is a seminar in advanced criminal procedure. The course will allow students to consider more deliberately some of the issues covered in the basic criminal procedure course and to experience the practical realities of practicing in the field of criminal law. By participating in mock pretrial hearings each week, we will explore a number of issues that typically arise during the course of a criminal prosecution. Course requirements include three written papers: two memoranda of law, (5 pages each) and one report and recommendation (15-20 pages), and participation in three classroom simulations of evidentiary hearings.

**LAW 6843 Seminar: Structured Finance**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** In its most basic form, securitization involves pooling, structuring, and selling assets (i.e., predictable cash flows such as loans), derived from an originator -- a financial institution or other entity, to a special legal entity that is "bankruptcy remote." The seminar will begin by introducing the concept of securitizing (or monetizing) assets, with an emphasis on the originators and the legal and accounting issues related to securitization and structured finance, will look at troubled securitization transactions including issues related to the bankruptcy of the originator, will address three independent case studies dealing with the first time issuer, the established company and industry, and will conclude by offering insights into the future of securitization. In its most basic form, securitization involves pooling, structuring, and selling assets (i.e., predictable cash flows such as loans), derived from an originator -- a financial institution or other entity, to a special legal entity that is "bankruptcy remote." The seminar will begin by introducing the concept of securitizing (or monetizing) assets, with an emphasis on the originators and the legal and accounting issues related to securitization and structured finance, will look at troubled securitization transactions including issues related to the bankruptcy of the originator, will address three independent case studies dealing with the first time issuer, the established company and industry, and will conclude by offering insights into the future of securitization.

**LAW 6844 Seminar: Real Estate Transactions**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** This course is intended to be a "hands on" program which would expose the law students to the real world issues, documentation, and experiences that an attorney in the area of commercial real estate law would encounter. Much of the course material is similar to the type of training and education that is provided to young associates at law firms such as Kirkland & Ellis. There would be both an emphasis on the theory behind the provisions that are contained in various transaction documents as well as the realistic results of negotiation and their effect upon actual transactions. The course would provide the students with actual drafting and preparation of real estate documentation, participate in negotiation sessions between students with follow up discussion regarding the results of those negotiations, and case studies evaluating real estate investment. The students should finish the class with a well-rounded understanding of basic commercial real estate documentation and transactions. The class will also provide an excellent foundation for all transactional lawyers both real estate and otherwise. The major topic to be addressed during the seminar include the following:1. Real Property Contracts and Conveyance Documents;2. Mortgages, Deeds of Trust and other Loan Documents;3. Leasing Documentation;4. Title Insurance Surveys;5. Real Estate Markets, Securitization and Development; and6. Real Estate Investments and Analysis.

**LAW 6846 Seminar: Philosophy of Punishment**

- **A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;**
- **Instructor:** STAFF
- **Description:** Student may contact the instructor or department for information.

**LAW 6851 Seminar: Advanced Legal Research**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** Limited enrollment seminar (30 students) emphasizing legal research strategies and practical use of
secondary source materials, administrative law materials, government documents and legal non-legal databases. Students are expected to complete short research problems and produce a research guide in a specialized area. Attendance is required. This course satisfies the senior writing requirement.

**LAW 6852 Seminar: Financial Institutions**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** During this seminar, students will be introduced to various aspects of financial institutions law, including: Financial Holding Companies and new powers under the Gramm-Leach-Bliley Act of 1999 such as securities and insurance, history and themes of bank and thrift regulations, mega mergers and competition, lending and trust powers, branching, consumer regulation and the Community Reinvestment Act. Issues discussed will be consistent with the kinds of issues that banking lawyers would expect to see in a regulatory practice. As part of the coursework, each student will research and write a paper on a banking issue or issues of current concern.

**LAW 6857 Corporate Tax**  
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;  
**Instructor:** STAFF  
**Description:** An introduction to Subchapter C of the Internal Revenue Code, the ?crown jewel? of the Tax Code, and the taxation of shareholders and corporations. The class will include an in-depth study of Section 351 and corporate formations; the capital structure of a corporation; nonliquidating distributions, including dividends and Section 301; redemptions of corporate stock including Section 302; both taxable and tax free acquisitions, including Section 368 re-organizations; and, corporate divisions such as spin-offs under Section 355. The course will not address international transactions, but will attempt to emphasize real world, current corporate tax problems.

**LAW 6860 Seminar: Advanced Topics in Labor and Employment Law**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** Students may contact the instructor or department for information.

**LAW 6865 Seminar: Law and Economics Workshop**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** This seminar/workshop brings in leading scholars in one designated field to present papers. Each week, a scholar presents her paper; students are required to write short (1-3 page) critiques and discussion questions for each paper, and participate in the class discussions. In 2006, the field was Behavioral Law and Economics. In 2007, the field will be Corporate Governance

**LAW 6867 Seminar: International and Foreign Legal Research**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** Limited enrollment seminar (20 students) emphasizing legal research strategies and practical use of secondary source materials in foreign and international law. Students are expected to complete weekly research exercises and a final exam consisting of research problems. Attendance is required. This course does NOT satisfy the senior writing requirement

**LAW 6868 Seminar: Business/Environmental Law**  
A-F only, 2 credit(s); prereq familiarity with CERCLA, corporate law, and personal property security recommended;  
**Instructor:** STAFF  
**Description:** Serious challenges face businesses and business people under the environmental laws. This seminar examines environmental issues and constraints in the context of typical business transactions (formation and realignment of business entities, buying and selling properties, lending and borrowing, producing and selling products, waste disposal and dealing with insolvency.) Our focus includes the legislative, administrative and judicial rules that allocate liability for damage to the environment and the lawyer's role in recognizing and minimizing client's liabilities. Creative deal structuring and contracts, emerging trends and useful tools are highlighted. A paper and class participation determines grading.

**LAW 6872 Immigration Law**  
A-F only, 3 credit(s);  
**Instructor:** STAFF  
**Description:** Students may contact the instructor or department for information.

**LAW 6876 Seminar: Digital Evidence**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** This seminar will cover the fast growing area of digital evidence and the legal issues that arise when digital evidence is investigated and used in criminal law and civil practice.

**LAW 6878 Seminar: Health Care**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** Students may contact the instructor or department for information.

**LAW 6885 Seminar: Advanced Environmental Law**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** This seminar will provide in-depth coverage of current issues in environmental law, with visiting lectures by environmental law specialists. Among the topics covered will be hazardous waste disposal, water pollution, and toxic torts. Students' papers will analyze current controversial issues in environmental law.

**LAW 6888 Seminar: Learning the Law by Avoiding it in the Process**  
P-F only, 1 credit(s);  
**Instructor:** STAFF  
**Description:** This seminar students decide from the facts of actual cases what the law should be. They explore logic, instinct, experience, common sense, some unavoidable nonsense and all other mental and emotional processes that are the substance of the law and very much involved in its making. The only forbidden ingredient in the discussions is known or suspected law.

**LAW 6892 Seminar: Comparative Criminal Procedure**  
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;  
**Instructor:** STAFF  
**Description:** Systems in several foreign countries for investigation, adjudication, and punishment of criminal violations. Focuses on French and German systems, with some attention to procedures in other common law countries such as Canada and Great Britain. Analysis of major similarities and differences between these, with emphasis on possibilities of basing American reforms on foreign practices.

**LAW 6897 Seminar: Game Theory**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** Game theory, the analysis of the logic of strategic behavior within interpersonal interactions, offers useful insights into how legal rules affect the way people behave. This seminar introduces what constitutes a game, payoffs, and basic solution concepts, such as the Nash Equilibrium. The seminar focuses on how various models, particularly the prisoner’s dilemma, coordination games, and “chicken,” can be used to study problems that arise in an array of legal fields, including but not limited to tort, contract, antitrust, bankruptcy, and environmental law. This seminar satisfies the requirement for substantial writing.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
LAW 6904 Equal Justice  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description: This is a three-credit seminar. The class meets 2 hours per week. A written paper and field research are required. For examples of completed papers, please see: http://www.lsej.org/RTF1.cfm?pagename=Completed%20Works. Class enrollment is limited to 16 students (four students from each of the four area law schools). Because places in the class are very limited, students should enroll in the class only if they are quite certain that they will not drop it. Past offerings of this seminar have suffered from under-enrollment because students have dropped the class after it has started and after it was too late for those on the waiting list to be added.

LAW 6906 Seminar: Public Law Workshop  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6917 Seminar: Climate Change, the Clean Air Act, and Energy Law  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6919 Seminar: Health Care Fraud and Abuse  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7000 CL: Civil Practice  
A-F only, 1-4 credit(s), max credits 4;  
Instructor: STAFF  
Description: The Civil Practice Clinic provides a unique opportunity for students to gain both practical experience in the lawyering process and the satisfaction of helping real clients. The Clinic introduces students to the practice of lawyering through a combination of instructional methods. Classroom sessions, explore topics such as interviewing, negotiation, and motion practice. Simulated exercises allow students to apply classroom learning in a life-like setting. Finally, each student handles approximately three live cases involving topics such as family, administrative, human rights, tort, consumer and contract law. These cases provide student attorneys with the opportunity to participate in almost all aspects of the lawyering process including actual court and administrative hearings. The Clinic course is a two semester program, although the classroom portion is completed during the first semester. Students may begin the Civil Practice Clinic course in either semester of the second year or in fall semester of the third year. Those students beginning in spring semester can complete their second semester during either the summer or fall semester of the following academic year. Students earn a total of four credits which may be allocated between the two semesters. A significant advantage to Clinic enrollment during the second year of law school is eligibility for selection as a third year student director. Student directors act as "junior partners" in the Clinic law firm in terms of handling the more difficult clinic cases and supervising beginning student attorneys.

LAW 7001 CL: Civil Practice Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7003 Seminar: Student Legal Writing  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7004 Seminar: Structured Study Group  
P-F only, 2-3 credit(s), max credits 8, 4 repeats allowed;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7010 Clinic: Innocence  
A-F only, 2-3 credit(s), max credits 6;  
Instructor: STAFF  
Description: Students in the Innocence Project Clinic will work in conjunction with the Innocence Project of Minnesota. In the clinic, students will investigate claims of actual innocence being made by inmates in Minnesota, and North and South Dakota. Students begin working a claim by obtaining primary source material?police reports, forensic reports, court pleadings, transcripts, appellate briefs, and opinions. At that point, many students will have the opportunity to talk to the trial and appellate attorneys who had previously worked on the case. After reviewing all of the source material, if the case still appears to be a viable one, the students will often visit the inmate in prison, giving them an opportunity to meet the inmate in person and question them about their claim. Students will also search for new evidence, and may visit crime scenes and interview witnesses. Students will be expected to prepare written summaries of what they do, and to present and discuss those experiences during class. Prerequisites: None

LAW 7015 Clinic: Worker Rights  
A-F only, 2-4 credit(s), max credits 8;  
Instructor: STAFF  
Description: This two-semester course provides an introduction to practice in employment law with an emphasis on assisting low-wage workers such as temporary or day laborers and immigrant workers. Clinic participants work in collaboration with a non-profit Workers Center in the Twin Cities that is part of a nationwide movement advocating for and organizing low-wage and immigrant workers. These workers? cases typically involve wage and hour violations and national origin/race discrimination. Students work together with the Workers Center to consider a variety of methods of addressing the workplace problems, including work by non-lawyer advocates, organizing and collective action, and the legal services our clinic provides. Clinic students are involved in client intake in various community settings, particularly in the Latino, Somali and Hmong immigrant communities. In addition to direct client representation, field work may also include community legal education and working with non-legal advocates, labor unions, and labor organizers. The clinic attempts to have at least one complex case involving discrimination or retaliation on its docket during the year. The clinic has a three-hour class component in the first semester and a two-hour session in the second semester. Class work involves training in the core lawyering skills of interviewing, counseling, negotiation, discovery, motion practice and legal ethics in practice. Class work also includes substantive reading and discussions on the efficacy of traditional labor and employment law for meeting the workplace needs of marginalized workers and strategies for change. Classes also discuss new client interviews conducted both by our students and lay advocate volunteers and interns at the Workers Center intake sites. Students do case rounds and discuss questions that come up in their case work and organizing. Prerequisites: None

LAW 7016 CL: Workers Rights Directors  
A-F only, 2 credit(s), max credits 4;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7018 Intercollegiate Trial Team  
A-F only, 2 credit(s); prereq Trial practice;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7020 CL: Special Education Law  
A-F only, 2-3 credit(s), max credits 6;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.
Instructor: STAFF  
Description: The Special Education Law Clinic offers advanced-standing law students the opportunity to work with and represent children with disabilities and their families. The law students, working under the supervision of an experienced school law attorney, assist with special education legal questions, reviewing special education documents, participating in conciliation conferences and mediations, working informally with schools to resolve disputes, and provide representation in state-level administrative complaints, hearings, and court actions. Law students may also participate in research projects and legislative and administrative proceedings. The Special Education Law Clinic is a two-semester program. It contains a classroom component mainly during the first semester. Throughout the program, law students will have a chance to meet and hear from professionals in the special education law community, including student advocates and attorneys, opposing counsel, school district staff, and state-level administrative decision makers.

LAW 7021 CL: Special Education Director  
A-F only, 2 credit(s), max credits 4;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7025 ABA Moot Court Competition Team  
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7026 ABA Moot Court Competition Director  
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7027 ABA Moot Court Competition Managing Director  
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7030 CL: Consumer Protection  
A-F only, 3-4 credit(s), max credits 8;  
Instructor: STAFF  
Description: Consumer Protection Clinic began in the Fall 2006 semester. Clinic students represent individuals who are victims of marketplace fraud or who have disputes regarding consumer credit, debt collection, predatory lending, or similar matters. The clinic recently received appointment as a Special Assistant Attorney General and engages in public consumer protection enforcement actions on assignment from the Minnesota Attorney General’s Office. The clinic also partners with local law firms, non-profit organizations, and state agencies to bring broader enforcement actions, draft legislation, or assist with other advocacy projects in the area of consumer protection. The clinic is a year-long course open to second-year and third-year students, beginning in the fall semester each year. The first-semester students receive four credits (including three credits for the classroom component). The second-semester students receive three credits. Some cases will be handled by the student individually, while more complex cases will be handled by teams of students. Consumer protection matters are filed in all forums, with an emphasis on federal court cases. Students are likely to be involved in drafting complaints, discovery, motion practice, and negotiations.

LAW 7031 CL: Consumer Protection Directors  
A-F only, 2 credit(s), max credits 4;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7035 Environmental Law Moot Court  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7036 Environmental Law Moot Court Director  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7037 Environmental Law Moot Court Competition Team  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7038 Environmental Law Moot Court Managing Director  
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7045 Wagner Labor Law Moot Court  
A-F only, 1-2 credit(s), max credits 2; prereq 3rd yr, dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7046 Wagner Labor Law Moot Court Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7047 Wagner Moot Court Competition Team  
A-F only, 1 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7055 Maynard Pirsig Moot Court  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7056 Maynard Pirsig Moot Court Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7057 Maynard Pirsig Moot Court Research Director  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7058 Maynard Pirsig Moot Court Managing Director  
A-F only, 1 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7065 National Moot Court  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7066 National Moot Court Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

LAW 7067 National Moot Court Administrative Director
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7068 National Moot Court Competition Team
A-F only, 1 credit(s), max credits 2;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7075 International Moot Court
A-F only, 1-3 credit(s), max credits 3; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7076 International Moot Court Director
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7077 International Moot Court Administrative Director
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7078 International Moot Court Competition Team
A-F only, 1 credit(s), max credits 2;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7085 Intellectual Property Moot Court
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7086 Intellectual Property Moot Court Competition Team
A-F only, 1-2 credit(s), max credits 2;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7087 Intellectual Property Moot Court Director
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7082 CL: Bankruptcy Clinic
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description: The Consumer Bankruptcy Clinic offers students the opportunity to advise and represent individuals in serious financial difficulty. This two-semester, four-credit course includes a classroom component, preparing the students to counsel clients about consumer bankruptcy and discussing important portions of the Bankruptcy Code and Rules. The majority of the course involves actually representing clients in financial difficulty. This includes advising clients of their options, communicating with their creditors, and filing bankruptcy cases (either Chapter 7 or 13). Students will also have the opportunity to represent clients in adversary proceedings, including discovery and trial as well as settlement negotiations with both creditors and the U.S. Trustee. Occasionally, students represent individual creditors as well.

LAW 7093 CL: Bankruptcy Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7094 Civil Rights Moot Court Administrative Director
A-F only, 1-2 credit(s), max credits 2;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7095 Civil Rights Moot Court
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7096 Civil Rights Moot Court Director
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7097 Civil Rights Moot Court Competition Team
A-F only, 1 credit(s), max credits 4, 4 repeats allowed;
prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7098 CL: Indian Child Welfare
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description: The Indian Child Welfare Act Clinic is a two-semester clinic offered annually since 1996. The clinic gives students practical experience in handling family law and juvenile law cases with a special emphasis on the federal Indian Child Welfare Act (ICWA) passed by Congress in 1978. Weekly classroom sessions are held in conjunction with the Child Advocacy Clinic and cover such topics as interviewing, negotiation, and motion practice. Students handle two to three cases over two semesters. Cases are referred from the Indian Child Welfare Law Center and students work closely with Shannon Smith, the Executive Director of ICWA, and other Center staff attorneys. These cases are selected to provide students with a variety of substantive and procedural experiences. The clinic course is a two-semester program beginning in the fall semester. Students earn a total of four credits allocated over two semesters.

LAW 7099 CL: Indian Child Welfare Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7100 Law Review Editors
P-F only, 3 credit(s), max credits 12, 4 repeats allowed;
prereq instr consent ;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7101 Law Review Associate Editors
P-F only, 2 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7102 Law Review Staff Member
P-F only, 1-2 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department for information.
LAW 7200 Law and Inequality Journal Editor
P-F only, 1-6 credit(s), max credits 9, 4 repeats allowed;
prereq instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7201 Law and Inequality Journal Associate Editor
P-F only, 2 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7202 Law and Inequality Journal Staff
P-F only, 1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7246 CL: Housing
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7247 CL: Housing Clinic Director
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed;
prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7300 Minnesota Journal of International Law
P-F only, 1-6 credit(s), max credits 9, 4 repeats allowed;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7302 Minnesota Journal of International Law Staff
P-F only, 1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7500 CL: Misdemeanor Defense
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: STAFF
Description: The educational goals of this clinic are knowledge,
an understanding of, and the ability to practice in a criminal
justice system. This course involves supervised prosecution
of individuals charged with petty misdemeanors, misdemeanors,
and gross misdemeanors in Ramsey and Hennepin County
District Court. Prosecution students are supervised by
prosecutors in several different jurisdictions in Hennepin and
Ramsey District Court. Students handle cases at all stages of
the criminal process, including arraignments, pretrial conferences
and court trials. The weekly two-hour class component of the
clinic includes lectures, simulations and role playing. The
lectures are on substantive and procedural aspects of criminal
law, and on skills performance. The simulations and role playing
involve the pre-trial and trial skills necessary to be an effective
advocate in the criminal justice system. The students are also
required to participate in one ride-along with a police department.
Prerequisites: None

LAW 7501 CL: Misdemeanor Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

LAW 7502 Minnesota Journal of International Law Staff
P-F only, 2 credit(s), max credits 4;
Instructor: STAFF
Description: The Immigration Law Clinic handles immigration
law matters, primarily applications for political asylum,
withholding of removal, and Article 3 claims under the
Convention Against Torture. Students will interview clients,
research country conditions, write legal memoranda on asylum issues, and prepare and present claims to the Immigration and Naturalization Service, the Immigration Court, and the Board of Immigration Appeals under the student practice rule. Each student will handle up to two asylum cases. Students can choose from cases presented affirmatively to the Immigration and Naturalization Service and those presented defensively before the Immigration Court. Students appearing before the Court will handle case and client preparation and courtroom appearances. It is preferred that students have prior experience in or exposure to asylum law or other aspects of immigration law, but neither is required. Enrollment is generally limited to six students. Interested students should write a brief statement of interest and/or experience. Students will be notified if they have been selected for the Immigration Law Clinic shortly after finals end. Students who participate in the Immigration Law Clinic will add the clinic through the drop/add process in the Fall.

LAW 7843 CL: Immigration Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7850 CL: Public Interest Law
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7860 CL: Multi-Profession Business Law
A-F only, 2-4 credit(s), max credits 8;
Instructor: STAFF
Description: The Minnesota Multi-Profession Business Law Clinic is a two-semester, 6-credit experience for 3Ls. Students enrolled in the clinic have the opportunity to gain broad transactional experience working with startup businesses and entrepreneurial clients. Students work with clients whose legal needs are transactional. Transactional practice includes the creation and interpretation of contracts and agreements. It also includes strategizing about legal issues of business formation, management, and governance. The delivery model is different from other clinics at the law school in several respects. Typically, law school clinic clients need assistance to resolve a dispute with another person or a government entity. Dispute resolution is not a part of clinic practice in the Minnesota Multi-Profession Business Law Clinic. As participants in this multi-profession clinic, students work with attorneys, accountants, and business consultants. This aspect of the practice closely replicates the practice of business law. Experienced business law and corporate group attorneys from several law firms and accounting firms supervise teams of law students working with clients who apply for clinic services. The 42-hour transactional skills curriculum component of the clinic includes extensive practice in negotiation and drafting, as well as self-assessments of problem solving and communication styles. The curriculum also includes segments on client interviewing and negotiation ethics. Students are encouraged to learn about themselves as practitioners.

LAW 7950 CL: Tax Clinic
A-F only, 2-4 credit(s), max credits 4;
Instructor: STAFF
Description: The Tax Clinic, first offered in 1981, is composed of two components. First, the clinic provides an opportunity for law students to represent low income taxpayers who have a controversy with the IRS. Representation can occur at audit, in the Appeals Office, in the collection process, before the U.S. Tax Court or, on occasion, before the U.S. District Court or 8th Circuit. In addition, representation may also extend to controversies with the MN Department of Revenue. Clinic students do not prepare tax returns. The clinic receives client referrals from the IRS and Tax Court in addition to those that come from community organizations (such as free tax assistance sites). Students in the clinic are also asked to participate in community education and outreach, since approximately one-third of our clients speak English as a second language. A clinic seminar meets weekly for both semesters. The seminar provides training in lawyering skills, such as interviewing, counseling, negotiation, and professional responsibility. In addition, guest speakers at the seminar from the IRS, the Minnesota Department of Revenue, and practicing bar provide useful information about the practice of tax law. Students must have taken (or be concurrently enrolled in) Federal Tax Procedure. Tax I is encouraged as well. Each year three students are selected to serve as directors in the clinic during their third year. Each summer the Tax Clinic hires three students to work full-time in the clinic. If you are interested in serving as a director during your third year for academic credit or a summer job for pay, preference is given to students enrolled in the Tax Clinic (i.e., enroll in your second year to be eligible).

LAW 7951 CL: Tax Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Learning and Academic Skills

104 Eddy Hall

LASK 1001 Mastering Skills for College Success
2 credit(s);
Instructor: Slattery, William Scott
Description: Study smarter ... not harder. Despite being bright and working hard, many students at the U. find they are unable to get the most out of their academic efforts; working hard doesn't always translate into the grades and performance they are looking for. LASK 1001 [Mastering Skills for College Success] was designed to address skills, strategies and approaches to help students become more efficient & effective in their academic efforts. The course focuses on 5 key areas for academic success: 1. Active Learning approaches; 2. Self-awareness & Learning Style; 3. Academic Skills (in areas such as note taking, exams, memory, reading, papers, etc.); 4. Balance Skills (in areas such as time & stress management); and, 5. Campus Resources (awareness & utilization). LASK 1001 balances lecture with hands-on application to help students get the most from their efforts.
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities, 5% Student Presentation, 5% Field Trips.
Grading: 12% mid exam, 12% final exam, 16% reports/papers, 38% special projects, 22% reflection paper.

LASK 1101 Academic Refresher
S-N only, 1 credit(s); prereq instr consent;
Instructor: Slattery, William Scott
Description: Falling behind? Always playing ‘catch-up’? Received an academic alert? Stressed about how to make the grades you need? Sometimes academic progress doesn't go as planned and students struggle. LASK 1101 [Academic Refresher] is a Mid-Semester (Term B) course designed to assist students over the final 7 weeks of the semester who are experiencing concerns about their academic progress. Through individualized planning and course assignments, students work with academic success consultants to develop & put into action a personal plan for success. Course focus is mainly on reaching academic goals for the current semester, however, students also learn skills and strategies to build ongoing success.
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities.
Grading: 35% special projects, 15% written homework, 25% attendance, 25% class participation.

LASK 1102 Academic Success
S-N only, 2 credit(s), max credits 4; prereq instr consent; preference given to students on academic probation returning from academic suspension;
Instructor: Slattery, William Scott
Description: This course was developed mainly for students on
Liberal Studies 20 Classroom Office Building

LS 5100 Liberal Studies Seminar: Women’s Leadership
Journey
A-F only, 3 credit(s), max credits 24, 24 repeats allowed; prereq dept consent;
Instructor: Hagberg, Janet M Olson
Description: Student may contact the instructor or department for information.

LS 5100 Liberal Studies Seminar
A-F only, 2 credit(s), max credits 24, 24 repeats allowed; prereq dept consent;
Instructor: Zita, Jacquelyn N
Description: Student may contact the instructor or department for information.

LS 5100 Liberal Studies Seminar: Creative Arts: Technology,
Work, and Values
A-F only, 3 credit(s), max credits 24, 24 repeats allowed; prereq dept consent;
Instructor: Amram, Fred M
Description: Student may contact the instructor or department for information.

LS 5100 Liberal Studies Seminar: Leadership and Change
A-F only, 3 credit(s), max credits 24, 24 repeats allowed; prereq dept consent;
Instructor: Crosby, Barbara C
Description: Change is often built into definitions of leadership, and certainly lots of scholars and practitioners have written about how leaders can foster change in their organizations or communities. As the United States and other countries move more fully into the "innovation economy," understanding the links between leadership and change take on increased urgency. Leaders will need conceptual tools and practical skills to promote innovative organizations that thrive in and contribute to an innovative society. Accordingly, this seminar will examine models of change and models of leadership and investigate how leaders can promote personal, organizational and societal change. Case studies and action research will be emphasized. An important class product will be a framework for leadership and change in an innovation society. At the end of each class session, two or three learners will be responsible for summarizing and synthesizing the evening's conversation in order to add to the framework. Individual Learner Outcomes: 1. Able to define and analyze leadership from several perspectives 2. Able to identify and explain personal-level models of change 3. Able to identify and explain organizational-level models of change 4. Able to identify and explain societal-level models of change 5. Able to apply models of change to cases 6. Able to write a case study 7. Able to explain role of leadership and change in an innovation society 8. Able to practice action research 9. Able to apply systems thinking to a case 10. Better equipped to build learning communities Collective Learner Outcomes: 1. Build framework for leadership and change in an innovation society 2. Build learning community 3. Plan an innovation project Written Assignments: 1. Reflections? Each learner is responsible for posting a written reflection on assigned readings five times during the semester on the course website. 2. Comments? Each learner is expected to post one thoughtful query (conversation starter) and four responses to other learners? queries five times during the semester. 3. Working Paper? 15-page case study or scholarly paper documenting action research related to the course. Also acceptable is a shorter teaching case and supporting notes and references.
Grading: 35% reports/papers, 25% reflection paper, 30% class participation, 10% other evaluation.

LS 5100 Liberal Studies Seminar: Issues in Arts Management
Workshop
A-F only, 2 credit(s), max credits 24, 24 repeats allowed; prereq dept consent;
Instructor: Wagner-Henry, Sherry Lynn
Description: BOARD RELATIONS AND DEVELOPMENT In typical seminar fashion, we will explore a focused area of arts leadership, management and/or policy, in order to investigate current trends and issues affecting the field of arts management. This course will complement the curriculum which is a part of the arts and nonprofit management core based in Liberal Studies (LS), and in Public Affairs and Public Policy (PA and PP), as well as serve as an elective role for those in graduate programs of study in arts disciplines and other nonprofit fields of study. Spring 2009, we will begin to explore the Fund Development needs of a nonprofit arts organization by focusing on Board Development and Relations. The delivery and methodology of the coursework will be to participate in seminar/workshops with experts from the Art and Nonprofit Management field, as well as conducting an in-depth analysis paper, which will reflect the material delivered in class, as it relates specifically to our partner arts organizations that we will access as research centers for our exploration in this topic area. SEMINAR LEADERS BILL VENNE (formerly of Illusion Theatre, Minnesota Opera, Ordway Center and Hennepin Theatre Trust; now Director of Development for the Graduate School) will begin by walking us through the comprehensive development plan—how to build it and what tools and strategies you need to employ to successfully frame it, execute it and evaluate it. These sessions will give the class a common understanding and vocabulary from which to build upon for the rest of the course. Mr. Venne will will draw upon text readings, case studies and in class guest panels to demonstrate the principles of good development planning and execution, then begin to draw the correlations to proper board development and stewardship as it relates to the whole. GAYLE OBER (formerly MD of Dale Warland Singers, Dir. of Cultural Affairs, St. Paul Mayor's Office, now VP of Classical Music Programming for American Public Media (MPR) and VP of the Mardag Foundation) will focus specifically on relationship building and board training and development, from both the staff side of the organization, as well as the board/donor side of the conversation. Gayle's extensive community-based experiences make her the ideal person to talk about the relationship side of building a comprehensive board development strategy, since she can approach it from a number of various perspectives—as a staff member, framing the message and the statement of purpose; the donor, hearing the message and framing the response, as well as assessing the fit; and as a negotiator/broker, helping arts organizations to find or establish relationships with community partners, like foundations and other funding organizations. With all of this in mind, we will talk about how to help your board invest in the organization and maximize the effectiveness of your board's contribution to the survival of the arts organization they serve.
Style: 30% Lecture, 30% Discussion, 10% Laboratory, 30% Guest Speakers.
Grading: 50% reports/papers, 40% attendance, 10% class participation.
EVALUATION: Attendance: 40% of the grade Class Participation: 10% of the grade Final Project: 50% of the grade ATTENDANCE: will be mandatory in order to pass this course—with only five class sessions, and much of the work centering around

LS 5100 Liberal Studies Seminar: Visions and Visionaries
A-F only, 3 credit(s), max credits 24, 24 repeats allowed;
LS 5100 Liberal Studies Seminar: Americans at Work
A-F only, 3 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent
Instructor: Lloyd, Roseann
Description: Student may contact the instructor or department for information.

LS 5100 Liberal Studies Seminar: A Natural History of Religion
A-F only, 3 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent
Instructor: Shupe, David Arlin
Description: Student may contact the instructor or department for information.

LS 5100 Liberal Studies Seminar: Leading Innovation in 21st Century Minnesota
A-F only, 3 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent
Instructor: Harkins, Arthur M
Description: Student may contact the instructor or department for information.

LS 5950 Special Topics: Try, Try Again
A-F only, 1 credit(s), max credits 12, 3 repeats allowed;
prereq dept consent
Instructor: Harkins, Arthur M
Description: Student may contact the instructor or department for information.

LS 5950 Special Topics: Restorative Justice
A-F only, 1 credit(s), max credits 12, 3 repeats allowed;
prereq dept consent
Instructor: Vogel, Howard J
Description: Student may contact the instructor or department for information.

LS 5950 Special Topics: Science Fiction & Modernity
A-F only, 1 credit(s), max credits 12, 3 repeats allowed;
prereq dept consent
Instructor: Caruso, Jennifer A
Description: Student may contact the instructor or department for information.

LS 8001 Introduction to Interdisciplinary Inquiry
A-F only, 3 credit(s); prereq MLS student, dept consent
Instructor: Gonzalez, PhD, Anita Marie
Description: Student may contact the instructor or department for information.

LS 8002 Final Project for Graduate Liberal Studies
A-F only, 3 credit(s); prereq MLS; all MLS coursework must be completed by end of sem, dept consent
Instructor: Gustafson, Donna Mae J
Description: Student may contact the instructor or department for information.

LS 8100 Advanced Interdisciplinary Inquiry
A-F only, 1-3 credit(s), max credits 5; prereq MLS student, dept consent
Instructor: Dennison, Sarah Matthias
Description: Student may contact the instructor or department for information.

Linguistics
214 Nolte Center

LING 1701 Language and Society
4 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: STAFF
Description: When you talk, you give out clues about who you are and where you come from. Sociolinguists have found that patterns of language use are affected by age, gender, socioeconomic status, ethnicity, and other aspects of people and situations. This course reflects on the relationship between language and such social variables. We will also examine multilingual situations such contact between speakers of different languages, and their implications for language loss and language change. Implications of sociolinguistic findings for educators will also be discussed.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 40% reflection paper.

LING 3001 Introduction to Linguistics
4 credit(s); Credit will not be granted if credit has been received for: LING 3001H; Meets CLE req of Social Science Core;
Instructor: STAFF
Description: This course is a general introduction to the various subfields of linguistics, the discipline devoted to the nature of human language, its basis in cognition, and its role in human affairs. The main emphasis in the course will be on the structural components of language: syntax (phrase and sentence structure), morphology (word structure), phonology (sound structure), and semantics/pragmatics (meaning). Students will learn about how human languages can differ from one another and how they are alike; they will also learn basic techniques for describing and analyzing linguistic data through working on examples taken from various languages of the world. An understanding of structural components of language will also serve as the basis for an introduction to subfields of linguistics concerned with how languages change over time (historical linguistics, the nature and cause of regional and social variation and diversity within a given language (sociolinguistics), how languages are learned by children and by adults learning a second language (language acquisition), and the biological basis of language in the brain (neurolinguistics). The course will be conducted through lectures and discussions. Course requirements include regular assignments, a midterm and a final. Target audience is anyone with an interest in the nature of human language.
Style: 80% Lecture, 20% Discussion.
Grading: 30% mid exam, 35% final exam, 35% problem solving.
Exam Format: Short answer

LING 3052V Honors: Thesis
A-F only, 3 credit(s); prereq 3051 credit will not be granted if credit has already been received for LING 3052H; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: A continuation of Ling 3051H, with emphasis on writing final version of thesis. Audience: CLA Honors Linguistics majors.
Style: independent research, writing
Grading: 100% reports/papers.

LING 3601 Historical Linguistics
3 credit(s); prereq 3001 or instr consent; Credit will not be granted if credit has been received for: LING 5601;
Instructor: STAFF
LING 4201 Syntax I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;
Instructor: Soh,Hooi Ling
Description: Student may contact the instructor or department for information.

LING 4302W Phonology I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;
Meets CLE req of Writing Intensive;
Instructor: Milligan,Marianne Irene
Description: Phonology is the branch of linguistics that is concerned with how sounds are organized and pattern in human languages. In this course you'll be introduced to the core concepts in phonological theory and analysis, including distinctive feature theory, syllable theory, rule formulation and interactions, nonlinear phonology, and constraint-based phonology. This will be accomplished by analyzing data from a wide variety of languages, with students working on problem sets and presenting their solutions both in written form and in discussion in class. The course has two primary aims; first, it will give you a solid foundation in phonological theory and problem-solving in order to do advanced work in phonology or other fields in linguistics; and second, it will develop and refine your skills at analyzing data and presenting a convincing written solution to a problem set, a skill that is useful in many fields.
Style: 70% Lecture, 30% Small Group Activities.

LING 4901W Major Project Seminar
S-N only, 3 credit(s); prereq Ling major, [jr or sr]; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This class will provide support for the completion of the senior project /Honors Thesis in Linguistics, by analyzing the structure and organization of linguistic papers and providing a forum for discussion of developmental and stylistic aspects of the writing process. Students must come to the first class with a project, preferably a previously written course paper that they would like to expand and revise. In case the project does not involve the expansion of a previously written course paper, students are expected to have with them a 6-8 page proposal, outlining the issue(s), previous studies, and the project plan. Target audience: Junior and Senior Linguistics majors.
Style: 50% Discussion, 30% Small Group Activities, 20% Student Presentation. Independent research and writing.
Grading: 50% reports/papers, 50% class activities
Exam Format: None

LING 5001 Introduction to Linguistics
4 credit(s); prereq grad or instr consent; Credit will not be granted if credit has been received for: LING 3001;
Instructor: Lucast,Ellen Irene
Description: Student may contact the instructor or department for information.

LING 5002 Introduction to Computational Linguistics
4 credit(s); prereq 3001 or 3001H or 5001 or instr consent;
Instructor: Oh,Hooi Ling
Description: This course is an introduction to the structure of sentences. We will consider how words are organized into phrases and sentences. We will explore how languages may differ in the way words are put together to form sentences and how they are the same. We will consider what the similarities and differences reveal about the human mind. The course will be conducted through lectures and discussions. Course requirements include regular assignments, a mid-term and a final. Target audience is undergraduate and graduate students in linguistics and related disciplines.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 40% final exam, 30% problem solving.
Exam Format: short answer

LING 5020 Semantics
3 credit(s); prereq 5201 or instr consent;
Instructor: Kac,Michael B
Description: This course is an introduction to formal techniques of semantic analysis. Although this is not a course in logic, many of the key concepts in formal semantics originate in logic and grow out of an attempt to clarify them and give them a rigorous formulation as they apply to "formalized languages", that is, languages specially designed for purposes of logical analysis. There is now an ongoing cross-disciplinary project involving investigators from linguistics, philosophy, computer science and other fields seeking to apply similar methods to the analysis of natural language; the course presents some of the seminal results of this project.
Style: 100% Lecture.
Grading: 33% final exam, 67% problem solving.
Exam Format: Essay

LING 5026 Linguistic Pragmatics
3 credit(s); prereq 5201 or instr consent;
Instructor: Reese,Brian Jon
Description: Student may contact the instructor or department for information.

LING 5201 Syntactic Theory I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;
Instructor: Soh,Hooi Ling
Description: This course is an introduction to formal techniques of semantic analysis. Although this is not a course in logic, many of the key concepts in formal semantics originate in logic and grow out of an attempt to clarify them and give them a rigorous formulation as they apply to "formalized languages", that is, languages specially designed for purposes of logical analysis. There is now an ongoing cross-disciplinary project involving investigators from linguistics, philosophy, computer science and other fields seeking to apply similar methods to the analysis of natural language; the course presents some of the seminal results of this project.
Style: 100% Lecture.
Grading: 33% final exam, 67% problem solving.
Exam Format: Essay

LING 5202 Phonological Theory I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;
Instructor: Milligan,Marianne Irene
Description: Phonology is the branch of linguistics that is concerned with how sounds are organized and pattern in human languages. In this course you'll be introduced to the core concepts in phonological theory and analysis, including distinctive feature theory, syllable theory, rule formulation and interactions, nonlinear phonology, and constraint-based phonology. This will be accomplished by analyzing data from a wide variety of languages, with students working on problem sets and presenting their solutions both in written form and in discussion in class. The course has two primary aims; first, it will give you a solid foundation in phonological theory and problem-solving in order to do advanced work in phonology or other fields in linguistics; and second, it will develop and refine your skills at analyzing data and presenting a convincing written solution to a problem set, a skill that is useful in many fields.
Style: 70% Lecture, 30% Small Group Activities.

LING 5205 Historical Linguistics
3 credit(s); prereq 3001 or 3001H or 3001H or 3001 or instr consent;
Instructor: Jarecki,Jonathan
Description: Historical Linguistics: Study of the research methods and theories of historical linguistics; the nature of the evidence, and the kinds of questions that can be answered. Historical linguistics is the study of language change. How they do, why they do, and what we can learn from studying these changes are the central topics of this course. There will be weekly reading and assignments from the text. The course is intended for students who are interested in learning how to study language change. The course requires a lot of reading, and students are expected to devote substantial time to it. The course will be conducted through lectures and discussions. Course requirements include regular assignments, a mid-term and a final. Target audience is undergraduate and graduate students in linguistics and related disciplines.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 40% final exam, 30% problem solving.
Exam Format: short answer

LING 5206 Historical Linguistics
3 credit(s); prereq 3001 or 3001H or 3001 or instr consent;
Instructor: Jarecki,Jonathan
Description: Historical Linguistics: Study of the research methods and theories of historical linguistics; the nature of the evidence, and the kinds of questions that can be answered. Historical linguistics is the study of language change. How they do, why they do, and what we can learn from studying these changes are the central topics of this course. There will be weekly reading and assignments from the text. The course is intended for students who are interested in learning how to study language change. The course requires a lot of reading, and students are expected to devote substantial time to it. The course will be conducted through lectures and discussions. Course requirements include regular assignments, a mid-term and a final. Target audience is undergraduate and graduate students in linguistics and related disciplines.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 40% final exam, 30% problem solving.
Exam Format: short answer

LING 5302 Proteus
3 credit(s); prereq 5201 or instr consent;
Instructor: Soh,Hooi Ling
Description: This course is an introduction to formal techniques of semantic analysis. Although this is not a course in logic, many of the key concepts in formal semantics originate in logic and grow out of an attempt to clarify them and give them a rigorous formulation as they apply to "formalized languages", that is, languages specially designed for purposes of logical analysis. There is now an ongoing cross-disciplinary project involving investigators from linguistics, philosophy, computer science and other fields seeking to apply similar methods to the analysis of natural language; the course presents some of the seminal results of this project.
Style: 100% Lecture.
Grading: 33% final exam, 67% problem solving.
Exam Format: Essay

LING 5303 Historical Linguistics
3 credit(s); prereq 3001 or 3001H or 3001H or 3001 or instr consent;
Instructor: Harkness,John Underwood
Description: Student may contact the instructor or department for information.

LING 5304 Historical Linguistics
3 credit(s); prereq 3001 or 3001H or 3001 or instr consent;
Instructor: Harkness,John Underwood
Description: Student may contact the instructor or department for information.

LING 5305 Historical Linguistics
3 credit(s); prereq 3001 or 3001H or 3001 or instr consent;
Instructor: Harkness,John Underwood
Description: Student may contact the instructor or department for information.
### LING 8106 Field Methods in Linguistics II
- **Credit(s):** 4
- **Prerequisites:** [5001, 5201, 5302] or [instructor consent, grad ling major]
- **Instructor:** Humnwick, Linda Anne
- **Description:** Student may contact the instructor or department for information.

### LING 8210 Seminar in Syntax
- **Credit(s):** 3, max credits 9, 3 repeats allowed; prerequisite 5202, 5205 or instructor consent
- **Instructor:** Soh, Hooi Ling
- **Description:** This seminar focuses on the syntax of aspect, which is concerned with descriptions of events and states and their development over time. We will discuss concepts and principles that have been of central significance in recent developments in the theory of aspect. We will examine syntactic analyses of aspect, and consider similarities and differences across languages in how aspectual meanings are expressed. Students will be introduced to primary literature in syntax and the interface between syntax and semantics, and will be expected to engage in primary research.
- **Style:** 100% Discussion.
- **Grading:** 60% reports/papers, 15% journal, 25% other evaluation. Grade: 1 Research Paper: 60% (includes research proposal, abstract, in-class presentation, final paper); 1 ?Remarks and Replies??Snippets??like Article: 20%; Abstract of 1 course reading: 5%; Syntax Diary: 15%

### LING 8900 Seminar: Topics in Linguistics: Introduction to Lexical Functional Grammar
- **Credit(s):** 3, max credits 9, 3 repeats allowed; prerequisite instructor consent
- **Instructor:** Marcotte, Jean-Philippe
- **Description:** Student may contact the instructor or department for information.

### LING 8991 Independent Study
- **Credit(s):** 1-4, max credits 15, 15 repeats allowed; prerequisite instructor consent
- **Instructor:** Gundel, Jeanette K
- **Description:** Student may contact the instructor or department for information.

### LING 8991 Independent Study
- **Credit(s):** 1-4, max credits 15, 15 repeats allowed; prerequisite instructor consent
- **Instructor:** Stenson, Nancy J
- **Description:** Student may contact the instructor or department for information.

### LING 8991 Independent Study
- **Credit(s):** 1-4, max credits 15, 15 repeats allowed; prerequisite instructor consent
- **Instructor:** Marcotte, Jean-Philippe
- **Description:** Student may contact the instructor or department for information.

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### Management
- **Credit(s):** 3-353
- **Instructor:** CarlSMgmt

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### MGMT 1001 Contemporary Management
- **Credit(s):** A-F, 3, prerequisite Carlson School fr or soph
- **Instructor:** Miller, Philip Jordan
- **Description:** Student may contact the instructor or department for information.

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### MGMT 1001 Contemporary Management
- **Credit(s):** A-F, 3, prerequisite Carlson School fr or soph
- **Instructor:** Seifeldin, Ashraf E
- **Description:** Student may contact the instructor or department for information.
MGMT 1001H Contemporary Management  
A-F only, 3 credit(s); prereq [Fr or soph] honors;  
Instructor: Spruth, Steve  
Description: Student may contact the instructor or department for information.

MGMT 1350 Introduction to Business and Business Careers  
A-F only, 3 credit(s);  
Instructor: Haarkla, Evon A  
Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management  
A-F only, 3 credit(s);  
Instructor: Goldman, Joseph Richard  

MGMT 3001 Fundamentals of Management  
A-F only, 3 credit(s);  
Instructor: Haarkla, Evon A  
Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management  
A-F only, 3 credit(s);  
Instructor: Schander, Raoul E  
Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management  
A-F only, 3 credit(s);  
Instructor: Kaiser, David  
Description: Student may contact the instructor or department for information.

MGMT 3004 Business Strategy  
A-F only, 3 credit(s); prereq CSOM soph or jr;  
Instructor: Fox, Isaac J  
Description: Student may contact the instructor or department for information.

MGMT 3004 Business Strategy  
A-F only, 3 credit(s); prereq CSOM soph or jr;  
Instructor: Schander, Raoul E  
Description: Student may contact the instructor or department for information.

MGMT 3010 Introduction to Entrepreneurship  
A-F only, 4 credit(s);  
Instructor: STAFF  
Description: This course provides an overview to students regarding the role of entrepreneurship in our economy and to the process of new venture creation. The course is intended to broadly introduce the set of skills known to have an impact on entrepreneurial success. The students are introduced to various forms of entrepreneurial pursuits including independent start-ups, venturing within established organizations, franchising, and acquiring existing businesses. The course is delivered through formal lecture, guest speakers, group work and a variety of experiential exercises. Key Learning Objectives: 1) Provide exposure to the role of entrepreneurs in society and potential career paths 2) Develop individual self-assessment of entrepreneurial interests and capabilities 3) Examine the new venture creation process and key challenges of launching and growing new businesses 4) Understand what skills are needed to become an entrepreneur 5) Begin to develop the foundational skills required to successfully embark on an entrepreneurial career, such as problem-solving under uncertainty, decision-making with incomplete information, communication, innovation processes, sales, negotiations, recruitment and staffing, and leadership.  
Style: 25% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 15% Guest Speakers.  
Grading: 25% reports/papers, 60% special projects, 15% class participation.

MGMT 3033V Honors: Business Communication  
A-F only, 3 credit(s); prereq 60 cr, CSOM upper div honors; permission granted for other honors students by UHP credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;  
Instructor: Littlefield, Holly A  
Description: This section of BA 3033 Business Communication will focus on important business communications concepts like audience analysis, persuasion, correspondence, discussion, presentations, and visual aids. The course will begin by covering these basics. Then you will apply these basics while working in small teams to provide a service or complete a project for a local non-profit, small community business, or service organization. You will have some choice as to what project you would like to select. You will meet a few times with representatives from that organization, but this is not traditional volunteering. Instead you will be completing a project for the organization the way that an outside consulting team might. Some examples of projects might include creating a marketing plan for the organization, designing a website, surveying clientele to provide customer service recommendations, creating a database, writing brochures, fliers, or other literature, developing a plan to recruit volunteers or new employees. Benefits of taking this section include working with non-profits and small businesses, doing real-life projects, creating documents and projects that will actually be used and can be shown to perspective employers, taking part in community activities, working with diverse groups of people, and becoming aware of community issues and concerns.  
Style: 20% Lecture, 80% Discussion.  
Grading: 10% mid exam, 15% reports/papers, 50% special projects, 15% in-class presentation, 10% class participation.  
Exam Format: essay

MGMT 3033W Business Communication  
A-F only, 3 credit(s); prereq Fr composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

MGMT 3033W Business Communication  
A-F only, 3 credit(s); prereq Fr composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Instructor: Littlefield, Holly A
Description: BA 3033--Business Communications fosters and enhances students' cognitive abilities and communication skills. It helps students become credible professionals who can effectively contribute to organizations and communities and successfully employ a variety of communications strategies and skills. BA 3033. Business Communications combines writing and speaking into a single, semester-long course required of all Carlson School undergraduates. This course gives students opportunities to develop critical thinking and applied skills through both speaking and writing assignments that simulate real business communication. Students take part in writing, speaking, discussions, team-work and other communications activities. This course should help students to: Communicate credibly and deliver both written and spoken messages that are adapted to the specific needs of the audience and situation; Understand differences in message design and audience interpretation of the various forms of business communication; Realize the persuasive strategies most effective in writing and speaking situations; Understand the persuasive effect of presenting quantitative information and appealing to audience logic or emotions; Demonstrate effective nonverbal communication skills; Critically judge information and information sources; Build sound arguments, using data and logic, when delivering a persuasive message; Use technology to increase the effectiveness of communication.
Style: 20% Lecture, 80% Discussion.
Grading: 10% mid exam, 40% reports/papers, 40% in-class presentation, 10% laboratory evaluation.

MGMT 3033W Business Communication
A-F only, 3 credit(s); prereq Fr composition, CSOM upper-div; at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;
Instructor: Sverson MA, JoAnn
Description: BA 3033--Business Communications fosters and enhances students' cognitive abilities and communication skills. It helps students become credible professionals who can effectively contribute to organizations and communities and successfully employ a variety of communications strategies and skills. BA 3033, Business Communications combines writing and speaking into a single, semester-long course required of all Carlson School undergraduates. This course gives students opportunities to develop critical thinking and applied skills through both speaking and writing assignments that simulate real business communication. Students take part in writing, speaking, discussions, team-work and other communications activities. This course should help students to: Communicate credibly and deliver both written and spoken messages that are adapted to the specific needs of the audience and situation; Understand differences in message design and audience interpretation of the various forms of business communication; Realize the persuasive strategies most effective in writing and speaking situations; Understand the persuasive effect of presenting quantitative information and appealing to audience logic or emotions; Demonstrate effective nonverbal communication skills; Critically judge information and information sources; Build sound arguments, using data and logic, when delivering a persuasive message; Use technology to increase the effectiveness of communication.
Style: 20% Lecture, 80% Discussion.
Grading: 10% mid exam, 40% reports/papers, 40% in-class presentation, 10% class participation.

MGMT 3040 Understanding the International Environment of Firms: International Business
A-F only, 3 credit(s); prereq 3001, CSOM upper div, at least 60 cr; Meets CLE req of International Perspect Theme;
Instructor: Vaaler, Paul Martin
Description: Student may contact the instructor or department for information.

MGMT 3040 Understanding the International Environment of Firms: International Business
A-F only, 3 credit(s); prereq 3001, CSOM upper div, at least 60 cr; Meets CLE req of International Perspect Theme;
Instructor: Bartlett, David Louis
Description: Student may contact the instructor or department for information.

MGMT 3040H Honors: Understanding the International Environment of Firms, International Business
A-F only, 3 credit(s); prereq 3001, honors student, at least 60 cr;
Instructor: Singh, Gurneeta Vasudeva
Description: Student may contact the instructor or department for information.

MGMT 3070 Topics in Management: Financing Entrepreneurial Ventures
A-F only, 2 credit(s), max credits 12, 3 repeats allowed;
Instructor: Fine, Alan Raymond
Description: This new course is designed to help students understand the perspectives of entrepreneur, intermediaries and investors in new ventures. It is also designed to help the student develop the necessary tools to assess financial needs at different stages of organizational growth, develop financial forecasts, and utilize valuation methodologies and financing tools to effectively negotiate/evaluate financing needs, and acquire relevant strategic financing that will enable the organization to continue to maneuver towards successful outcomes. (Prerequisites: ACCT 2050, FIN 3001, MGMT 3010)

MGMT 3070 Topics in Management: Entrepreneurship in Action
A-F only, 4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Stavig, John
Description: Student may contact the instructor or department for information.

MGMT 3070 Topics in Management
A-F only, 4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Bartlett, David Louis
Description: Student may contact the instructor or department for information.

MGMT 3090 Topics in Leadership
A-F only, 2 credit(s), max credits 4, 1 repeat allowed;
Instructor: Wirth, Jeffrey John
Description: Students interact directly with founding entrepreneurs of leading Minnesota businesses and study their successes and failures. Students are paired in small groups with an entrepreneur to write and present a paper on the development of their business. Students later analyze the cases of five other participating entrepreneurs who share their perspectives in class. At the conclusion of the cases, students apply these lessons to their own entrepreneurial endeavors. Key Learning Objectives: 1. Gain insights from founders of leading Minnesota companies 2. Identify, analyze and discuss recurring perspectives in class. At the conclusion of the cases, students apply these lessons to their own entrepreneurial endeavors. Key Learning Objectives: 1. Gain insights from founders of leading Minnesota companies 2. Identify, analyze and discuss recurring challenges facing entrepreneurial businesses 3. Apply prior entrepreneurship and functional coursework in real business environment 4. Inspire students to assess their personal ambition and to set long-term goals 5. Understand the student's personal management style and how it will impact their future entrepreneurial endeavors

MGMT 4002 Managerial Psychology
A-F only, 4 credit(s);
Instructor: Leroy, Sophie
Description: Student may contact the instructor or department for information.

MGMT 4004V Honors: Business Policy: Strategy Formulation
Description: Student may contact the instructor or department for information.
and Implementation
A-F only, 3 credit(s); prereq 3040, at least 90 cr, honors student, completion of business core courses; Meets CLE req of Writing Intensive;
Instructor: Sefieldin,Ashraf E
Description: Student may contact the instructor or department for information.

MGMT 4004W Business Policy: Strategy Formulation and Implementation
A-F only, 3 credit(s); prereq 3040, 90 cr, completion of business core courses; Meets CLE req of Writing Intensive;
Instructor: Seeley,William Scott
Description: Student may contact the instructor or department for information.

MGMT 4004W Business Policy: Strategy Formulation and Implementation
A-F only, 3 credit(s); prereq 3040, 90 cr, completion of business core courses; Meets CLE req of Writing Intensive;
Instructor: Hernandez,Exequiel
Description: Student may contact the instructor or department for information.

MGMT 4004W Business Policy: Strategy Formulation and Implementation
A-F only, 3 credit(s); prereq 3040, 90 cr, completion of business core courses; Meets CLE req of Writing Intensive;
Instructor: Sefieldin,Ashraf E
Description: Student may contact the instructor or department for information.

MGMT 4004W Business Policy: Strategy Formulation and Implementation
A-F only, 3 credit(s); prereq 3040, 90 cr, completion of business core courses; Meets CLE req of Writing Intensive;
Instructor: Farshi,Stephanie Gordon
Description: Student may contact the instructor or department for information.

MGMT 4008 Entrepreneurial Management
A-F only, 4 credit(s); prereq 3010, CSOM upper div;
completion of core recommended;
Instructor: Keller,Linda Jean Hall
Description: This course focuses on developing the students ability to manage a business enterprise. It explores how business models change from start-up through maturity, as well as key challenges at each stage of growth. It also explores organizational leadership methodologies as they pertain to stakeholder management, strategic planning, management development, control systems, financial analysis and financing. This course concludes with the employment of course learning through the examination of a live case. Key Learning Objectives: 1) Understand business growth and the typical problems encountered 2) Understand the challenges of a growing business and how to manage growth and change 3) Learn how to assess the interests of key stakeholders and how to manage these relationships 4) Sharpen entrepreneurship skills and competencies of problem-solving, decision-making, communication, innovation, sales, negotiations and leadership

MGMT 4008 Entrepreneurial Management
A-F only, 4 credit(s); prereq 3010, CSOM upper div;
completion of core recommended;
Instructor: Fine,Alan Raymond
Description: This course focuses on developing the students ability to manage a business enterprise. It explores how business models change from start-up through maturity, as well as key challenges at each stage of growth. It also explores organizational leadership methodologies as they pertain to stakeholder management, strategic planning, management development, control systems, financial analysis and financing. This course concludes with the employment of course learning through the examination of a live case. Key Learning Objectives: 1) Understand business growth and the typical problems encountered 2) Understand the challenges of a growing business and how to manage growth and change 3) Learn how to assess the interests of key stakeholders and how to manage these relationships 4) Sharpen entrepreneurship skills and competencies of problem-solving, decision-making, communication, innovation, sales, negotiations and leadership

MGMT 4040 Negotiation Strategies
A-F only, 4 credit(s);
Instructor: Abrams,Lori J
Description: Student may contact the instructor or department for information.

MGMT 4050 Management of Innovation and Change
A-F only, 2 credit(s); prereq [3001 or 3010], CSOM upper div;
credit will not be granted if credit received for: 5050;
Instructor: Bechara,John Phillippe
Description: Student may contact the instructor or department for information.

MGMT 4080 Applied Technology Entrepreneurship
A-F only, 4 credit(s);
Instructor: Bhave,Nachiket
Description: The new class centers around team projects which are based on commercializable technologies or innovations. A mix of technology and business students will develop business plans and pitch their ideas. Students will develop cross-functional experience in finance, law and marketing. Technologies will come from a mix of University research and student developed ideas. NOTE: This class satisfies MGMT 4177 requirement. (Prerequisites: MGMT 3010 recommended)

MGMT 4177 The Business Plan
A-F only, 2 credit(s); prereq 3010, CSOM upper div;
credit will not be granted if credit received for: 5177;
Instructor: Villanueva,Jaume
Description: Student may contact the instructor or department for information.

MGMT 6004 Negotiation Strategies
A-F only, 2 credit(s); prereq MBA student;
Instructor: Abrams,Lori J
Description: Student may contact the instructor or department for information.

MGMT 6004 Negotiation Strategies
A-F only, 2 credit(s); prereq MBA student;
Instructor: Hydrie,Yelena
Description: Student may contact the instructor or department for information.

MGMT 6004 Negotiation Strategies
A-F only, 2 credit(s); prereq MBA student;
Instructor: Li,Min
Description: Student may contact the instructor or department for information.

MGMT 6031 Industry Analysis and Competitive Strategy
A-F only, 4 credit(s); prereq MBA 6300;
Instructor: Fox,Isaac J
Description: Student may contact the instructor or department for information.

MGMT 6032 Strategic Alliances
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar,Svetlana
Description: Student may contact the instructor or department for information.
MGMT 6033 Managing the Strategy Process
A-F only, 2 credit(s); prereq MBA student; Instructor: Abrams,Lori J
Description: Student may contact the instructor or department for information.

MGMT 6034 Strategic Leadership
A-F only, 2 credit(s); prereq 6033; Instructor: Stake,James Brian
Description: Student may contact the instructor or department for information.

MGMT 6035 Complex and Cross-Cultural Negotiations
A-F only, 2 credit(s); Instructor: Hydrie,Yelena
Description: Student may contact the instructor or department for information.

MGMT 6040 International Strategy and Organization
A-F only, 2 credit(s); prereq MBA student; Instructor: Madzar,Svjetlana
Description: Student may contact the instructor or department for information.

MGMT 6050 Management of Innovation and Change
A-F only, 2 credit(s); prereq MBA student; Instructor: Van de Ven,Andrew Henry
Description: Student may contact the instructor or department for information.

MGMT 6084 Management of Groups
A-F only, 2 credit(s); prereq MBA student; Instructor: Madzar,Svjetlana
Description: Student may contact the instructor or department for information.

MGMT 6110 Managing People and Organizations
A-F only, 2 credit(s); prereq MBA student; Instructor: Leroy,Sophie
Description: Student may contact the instructor or department for information.

MGMT 6305 The International Environment of Business
A-F only, 2 credit(s); Instructor: Bartlett,David Louis
Description: Student may contact the instructor or department for information.

MGMT 6305 The International Environment of Business
A-F only, 2 credit(s); Instructor: Singh,Gurneeta Vasudeva
Description: Student may contact the instructor or department for information.

MGMT 6402 Integrative Leadership: From Theory to Practice
A-F only, 2 credit(s); prereq CSOM or Humphrey or UM masters student; Instructor: Vaaler,Paul Martin
Description: Student may contact the instructor or department for information.

MGMT 8101 Theory Building and Research Design
4 credit(s); prereq Business admin PhD student or instr consent; Instructor: Van de Ven,Andrew Henry
Description: Student may contact the instructor or department for information.

MGMT 8402 Seminar in Strategy Process
4 credit(s); prereq Business admin PhD student or instr consent; Instructor: Forbes,Daniel P
Description: Student may contact the instructor or department for information.

MGMT 8404 Topics in Strategy Igy I
A-F only, 2 credit(s); prereq PhD student or instr consent; Instructor: Zahra,Shaker A
Description: Student may contact the instructor or department for information.

MOT 4001 Leadership, Professionalism and Business Basics for Engineers
A-F only, 2 credit(s); Instructor: Froggatt,Kirk
Description: MOT 4001 is designed to provide scientists and engineers with a working knowledge of the broader business context within which technical ideas are translated into solutions that address customer needs and deliver commercial value to a firm. The course will broaden students’ business knowledge and personal leadership abilities, enabling technical professionals to increase their business impact and career success. This two-credit course will build practical knowledge and skill in personal leadership and professionalism, effective communication, business fundamentals, and the process of innovation (i.e., transforming technical ideas into value creating solutions). The course content and the experiential learning approach are designed to reflect the real world requirements and challenges technical professionals need to master in order to thrive in collaborative, project team environments. The course instructor has spent 24 years working for Silicon Valley-based technology companies including HP, Silicon Graphics, Yahoo!, and Agilent Technologies. He brings relevant experience, academic rigor, and a passion for applied learning and development to the classroom.

MOT 4001 is designed to provide scientists and engineers with a working knowledge of the broader business context within which technical ideas are translated into solutions that address customer needs and deliver commercial value to a firm. The course will broaden students’ business knowledge and personal leadership abilities, enabling technical professionals to increase their business impact and career success. This two-credit course will build practical knowledge and skill in personal leadership and professionalism, effective communication, business fundamentals, and the process of innovation (i.e., transforming technical ideas into value creating solutions). The course content and the experiential learning approach are designed to reflect the real world requirements and challenges technical professionals need to master in order to thrive in collaborative, project team environments. The course instructor has spent 24 years working for Silicon Valley-based technology companies including HP, Silicon Graphics, Yahoo!, and Agilent Technologies. He brings relevant experience, academic rigor, and a passion for applied learning and development to the classroom.

MOT 8111 Marketing Management for Technology-based Organizations
A-F only, 2 credit(s); prereq Grad MOT major; Instructor: Soni,Tarun
Description: Student may contact the instructor or department for information.

MOT 8113 Operations Management for Competitive Advantage
A-F only, 2 credit(s); prereq Grad MOT major; Instructor: Linderman, Kevin Wayne
Description: Student may contact the instructor or department for information.

MOT 8122 Financial Management for Technology-based Organizations
A-F only, 2 credit(s); prereq Grad MOT major; Instructor: Rao,Dileep R
Description: Objectives: This course is designed to teach the basics of Finance; how finance managers add value to the firm; and its application to a technology product or venture. This course is designed to prepare managers to effectively participate in the general managerial decision-making process from a financial standpoint. Format: Class sessions will involve discussion of cases, exercises, and lectures. The written assignment includes one case. One exam and one team project are also included. Competence in this course will be gained through: 1. Reading the assigned material in the text. 2. Completing the assigned problems and cases. 3. Class lectures and oral presentations.

MOT 8213 Macroevironment of Technology
A-F only, 2 credit(s); prereq Grad MOT major; Instructor: Marcus, Alfred A
Description: Student may contact the instructor or department for information.
MOT 8214 Technology Foresight and Forecasting  
A-F only, 2 credit(s); prereq Grad MOT major;  
Instructor: Carlson,Lockwood  
Description: Student may contact the instructor or department for information.

MOT 8221 Project and Knowledge Management  
A-F only, 2 credit(s); prereq Grad MOT major;  
Instructor: Smith,Karl Aidrich  
Description: Student may contact the instructor or department for information.

MOT 8231 Managing Information Resources in Technology-based Organizations  
A-F only, 1 credit(s); prereq Grad MOT major;  
Instructor: Riggins,Frederick J  
Description: Student may contact the instructor or department for information.

MOT 8232 Managing Technological Innovation  
A-F only, 2 credit(s);  
Instructor: Carlson,Lockwood  
Description: Student may contact the instructor or department for information.

MOT 8234 Capstone Project  
A-F only, 0.5-2 credit(s), max credits 2; prereq Completion of two semesters, grad MOT major;  
Instructor: Amin,Massoud  
Description: Student may contact the instructor or department for information.

MOT 8940 Managing Intellectual Property  
S-N only, 0.5-1.5 credit(s), max credits 1.5, 1 repeat allowed; prereq MOT grad student;  
Instructor: Pletcher,Wayne A  
Description: Student may contact the instructor or department for information.

MOT 8950 International Management of Technology Project  
A-F only, 1.5 credit(s); prereq MOT grad student;  
Instructor: Polla,Dennis L  
Description: Student may contact the instructor or department for information.

MCOM 5500 Strategic Managerial Communication  
(Comprehensive Course)  
A-F only, 4 credit(s), max credits 8; prereq MBA student;  
Instructor: Syverson MA,JoAnn  
Description: Student may contact the instructor or department for information.

MCOM 5520 Persuasive Writing in Business: Non-Native Speakers of English  
A-F only, 2 credit(s); prereq MBA student, non-native English speaker;  
Instructor: Holt,Sheryl Lynn  
Description: Student may contact the instructor or department for information.

MCOM 5530 Strategies and Skills for Managerial Presentations  
A-F only, 2 credit(s); prereq MBA student;  
Instructor: Smith,Sandra S  
Description: Student may contact the instructor or department for information.

MCOM 5540 Strategies and Skills for Managerial Presentations: Non-Native Speakers of English  
A-F only, 2 credit(s); prereq MBA student, non-native speaker of English;  
Instructor: Holt,Sheryl Lynn  
Description: Student may contact the instructor or department for information.

Manufacturing Technology  
20 Classroom Office Building

MT 3001 Manufacturing in a Global Economy  
A-F only, 3 credit(s);  
Instructor: Zimmerman,Frederick Mi  
Description: Explores how the global business economy has transformed the manufacturing sector. Overview of key manufacturing elements: systems, processes, quality engineering, process improvement, supply-chain management, product and systems innovation, regulatory affairs, and technology use to manage change. Co-taught by Dr. Fred Zimmerman, former head of the St. Thomas College Engineering Department and a leading authority on the industrial economy.

MT 3111 Elements of Microelectronic Manufacturing  
A-F only, 3 credit(s); prereq Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr;  
Instructor: Campbell,Stephen A  
Description: Develop basic familiarity with all of the common micro fabrication processes and understand how these processes are applied to CMOS manufacturing.

MT 3112 Elements of Micro and Nano Manufacturing Laboratory  
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3111;  
Instructor: Cibuzar,Gregory Thomas  
Description: Lab covers the basic process steps to make top-down micro and nano scaled structures. Specific topics include oxidation, photolithography, electron beam lithography, chemical vapor deposition, etching, rapid thermal annealing, wet chemical etching, and plasma etching. Students will also build a test chip containing a variety of micro mechanical structure as part of the lab. The final lab will involve an evaluation of the operation of these structures (11 four-hour labs).

MT 3121 Thin Films Deposition  
A-F only, 3 credit(s); prereq Physics, chemistry, [college algebra or precalculus], 45 cr;  
Instructor: Tran,Nang  
Description: This course will give students the opportunity to know and work with thin film metals and oxides. Exposure to photo lithography and methods of deposition the HV and UHV range including vacuum evaporation, sputtering methods and chemical vapor deposition. (Prereq. MECT 2293)

MT 3131 Introduction to Materials Characterization  
A-F only, 4 credit(s); prereq Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr;  
Instructor: Hatner,Robert S  
Description: Introduction to four basic types of characterization methods: electron beam microscopy, optical microscopy and...
MT 3141 Principles and Applications of Bionanotechnology
A-F only, 4 credit(s); prereq Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr;
Instructor: Wang, Ping
Description: Overview of the challenges and available tools for measuring the properties of nanoaerosols. Topics include optical particle counters, condensation particle counters, differential mobility analysis, electrosprays, atomizers, and single particle mass spectrometers.

MT 3142 Nanoparticle Technology and Engineering Laboratory
A-F only, 1 credit(s); prereq Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr;
Instructor: Wang, Jing
Description: Introduction to protein, lipid and nucleic biochemistry. Biomolecule design, production using recombinant DNA technology & use in nanodevices and nano-materials. Applications of biological molecules in bionanotechnology: effects of Brownian motion; biomolecular surfaces forces; biomolecule structure alterations due to molecular interaction; self-assembly.

MT 4001 Manufacturing Cost Accounting, Analysis, and Control
A-F only, 3 credit(s); prereq Financial accounting, 45 cr;
Instructor: Vickman, Thomas M
Description: For details on this course, go to http://idwebdb.cce.umn.edu/courses.asp and search for online format.

MT 4011 Design of Manufacturing Systems and Simulation
A-F only, 3 credit(s); prereq 3001 or manufacturing experience;
Instructor: Wetenkamp, Christina M
Description: For details on this course, go to http://idwebdb.cce.umn.edu/courses.asp and search for online format.

MT 4012 Manufacturing Processes and Technology
A-F only, 3 credit(s); prereq 3001 or manufacturing experience;
Instructor: Edmonson, Dave
Description: For details on this course, go to http://idwebdb.cce.umn.edu/courses.asp and search for online format.

MT 4045 Manufacturing Regulation, Compliance, and Ethics
A-F only, 3 credit(s); prereq 3001 or manufacturing experience;
Instructor: King, William Tyler
Description: Globalization has intensified the need for compliance with government regulations within manufacturing organizations. In this course, you will learn worldwide regulations and standards related to the design and manufacture of medical devices, one of the most rigorously regulated industries, under the auspices of compliant quality systems and facilities required to achieve product approvals that drive the strategic growth of the business. Course goals: - Understanding of regulatory processes and their applications in the manufacturing technology industry. These processes include but are not limited to: * Verification and Validation of mfg processes * Standards and classifications of FDA, ISO, etc. * OSHA/HAZMAT/Environmental * Risk Management and PFMEA - Identify and analyze the differing compliance agencies and their purposes. This would include inspections, internal and external audits, recalls, and the governing bodies (national and international) associated with compliance. - Interpret and explain the ethical ramifications and dilemmas associated with regulatory requirements and compliance. Coursework includes a project involving the creation of a mock medical device? and use that as the basis to apply the various course modules for a real world case study for analysis and discussion.

MT 4501 Global Manufacturing Enterprise
A-F only, 3 credit(s); prereq MT major or minor or certificate or instr consent;
Instructor: King, William Tyler
Description: Capstone project. Develop a part or product from the requirement definition through prototype fabrication. Including: definition of product requirements, development of product and tooling design, analysis, definition of fabrication process, development of quality assurance plan, fabrication of prototype, inspection and testing.

Marketing
3-140 CarlsMgmt

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Nelson, Elaine W
Description: Student may contact the instructor or department for information.

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Mackenzie, Lydia May
Description: Student may contact the instructor or department for information.

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Mueller, Wayne G
Description: The student will learn the basic marketing concepts that drive corporate marketing strategy and will apply them through use classroom discussion, team presentations, guest speakers and video discussion techniques. Key Twin Cities Marketing Executives will make guest appearances throughout the semester to share their career experiences, techniques and ideas for marketing success in a challenging global corporate world. Students will learn, present and apply marketing principles and their ideas in front of the class. Being able to present and apply ideas are a key ingredient to your future success in business. This is a “no penalty zone” for the student to learn and try individually learned marketing techniques to establish their own style of applying marketing principles. Many of the reading materials and weekly chapter readings will be supplemented with lecture/discussion sessions from the instructor's experiences in the current business world. The goal is to make the text relevant to current business conditions. Reading the weekly chapters and completing quizzes will be critical for the on-going progress of the student and meeting of course objectives. Therefore, balancing depth and breadth of the chapter readings will be important an important objective to ensuring the course provides real world relevance.
Style: 30% Lecture, 70% Discussion.
Grading: 30% mid exam, 15% final exam, 30% quizzes, 15% in-class presentations, 10% class participation.
Exam Format: Multiple Choice

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Goodyear, Steve
Description: Student may contact the instructor or department for information.

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Rogers, Deborah
Description: Student may contact the instructor or department for information.

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Lipe, Jay
Description: Student may contact the instructor or department for information.

MKTG 3010 Marketing Research
A-F only, 4 credit(s); prereq [3001 or Concurrent registration is required (or allowed) in 3001], [OMS 2550 or equiv];
Instructor: Cui, Tony H.
Description: Student may contact the instructor or department for information.

MKTG 3010 Marketing Research
A-F only, 4 credit(s); prereq [3001 or Concurrent registration is required (or allowed) in 3001], [OMS 2550 or equiv];
Instructor: Werner, Seth E
Description: Student may contact the instructor or department for information.

MKTG 4030 Selling and Sales Management
A-F only, 4 credit(s); prereq 3001, 3010;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 4040 Buyer Behavior
A-F only, 4 credit(s); prereq 3001, 3010;
Instructor: Maki, Diane
Description: Student may contact the instructor or department for information.

MKTG 4040 Buyer Behavior
A-F only, 4 credit(s); prereq 3001, 3010;
Instructor: Meyers-Levy, Joan
Description: Student may contact the instructor or department for information.

MKTG 4050 Integrated Marketing Communications
A-F only, 4 credit(s); prereq 3001, 3010;
Instructor: Griskevicius, Vladas
Description: Student may contact the instructor or department for information.

MKTG 4060 Marketing and Distribution Channels
A-F only, 4 credit(s); prereq 3001, 3010;
Instructor: Beilich, Thomas James
Description: Student may contact the instructor or department for information.

MKTG 4070 International Marketing
A-F only, 2 credit(s); prereq 3001;
Instructor: Murray, John A
Description: Student may contact the instructor or department for information.

MKTG 4080 Marketing Strategy
A-F only, 4 credit(s); prereq 3001, 3010;
Instructor: Redden, Joseph P
Description: This course focuses on how a firm manages its resources and capabilities to maximize customer value and firm profit. Students will learn about several key concepts that form the basis for marketing strategy, as well as the frameworks and tools useful in developing a successful marketing strategy. The topics discussed will include the benefits of being market oriented; the principles of segmentation, targeting, and positioning; product life cycle dynamics; the structural analysis of industries and markets; and the basis of a sustainable competitive advantage. The course will be taught largely using the case method to allow students to develop the skills of decision-makers in real organizations. The cases are designed to improve the student's ability to analyze a firm's situation, summarize the critical issues, and justify a particular course of action. Additionally, several short homework assignments have been included to illustrate specific marketing concepts to the students. The target audience for this course is upper-class undergraduate marketing majors.
Style: 40% Lecture. 60% Discussion. 6 short homework assignments (should require less than an hour each)
Grading: 25% mid exam, 30% reports/papers, 5% quizzes, 25% class participation, 15% problem solving.
Exam Format: short answer

MKTG 4090 Marketing Topics
A-F only, 4 credit(s), max credits 8; prereq 3001, 3010;
Instructor: Bartlett, David Louis
Description: Student may contact the instructor or department for information.

MKTG 6051 Marketing Research
A-F only, 4 credit(s); prereq MBA 6210, MBA student;
Instructor: Miller, Craig Arthur
Description: Student may contact the instructor or department for information.

MKTG 6055 Buyer Behavior
A-F only, 4 credit(s); prereq MBA 6210, MBA student;
Instructor: Flanders, Gordon R
Description: Student may contact the instructor or department for information.

MKTG 6065 Strategic Supply Chain Management
A-F only, 2 credit(s); prereq [6060 or OMS 6056, or ISc 6442 or ISc 6423], 2nd yr MBA student; Credit will not be granted if credit has been received for: OMS 6065;
Instructor: McConnell, Brian W
Description: Student may contact the instructor or department for information.

MKTG 6073 Technology Marketing
A-F only, 4 credit(s); prereq [[MBA 6210 or equiv], MBA student] or dept consent;
Instructor: Murray, John A
Description: Student may contact the instructor or department for information.

MKTG 6075 Pricing Strategy
A-F only, 4 credit(s); prereq MBA 6210, MBA student;
Instructor: Bergen, Mark Edward
Description: Student may contact the instructor or department for information.

MKTG 6082 Brand Management
A-F only, 4 credit(s); prereq MBA 6210;
Instructor: John, Deborah Roedder
Description: Student may contact the instructor or department for information.

MKTG 6082 Brand Management
A-F only, 4 credit(s); prereq MBA 6210;
MBA 6030 Financial Accounting
A-F only, 3 credit(s); prerequisite Evening MBA Student;
Instructor: Duke, Gordon Leon
Description: Student may contact the instructor or department for information.

MBA 6035 Managerial Accounting
A-F only, 3 credit(s); prerequisite MBA 6030, 6230;
Instructor: Carlos, Charles Michael
Description: Student may contact the instructor or department for information.

MBA 6035 Managerial Accounting
A-F only, 3 credit(s); prerequisite MBA 6030, 6230;
Instructor: White, Paul Andrew
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: Huchendorf, Steven Craig
Description: Student may contact the instructor or department for information.

MBA 6210 Marketing Management
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: Upton, Kevin John
Description: Student may contact the instructor or department for information.

MBA 6210 Marketing Management
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: Hansen, Robert A
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: Shah, Rachna
Description: Student may contact the instructor or department for information.

MBA 6230 Financial Management
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6300 Strategic Management
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: Lifschitz, Arik
Description: Student may contact the instructor or department for information.

MBA 6300 Strategic Management
A-F only, 3 credit(s); prerequisite MBA student;
Instructor: Toh, PK
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s); prerequisite MBA student;
Instructor: Snyder, Steven J
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s); prerequisite MBA student;
Instructor: Marcus, Alfred A
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s); prerequisite MBA student;
Instructor: Castleberry Sr, Stephen Byron
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s); prerequisite MBA student;
Instructor: Young, Stephen
Description: Student may contact the instructor or department for information.

MBA 6501 Carlson Funds Enterprise: Growth
2 credit(s), max credits 6, 3 repeats allowed; prerequisite [Apply to or accepted in spring-A of 1st year to begin in spring-B; recommended are [emphasis in finance mgmt, 6031, Acct 6100, Acct 6160];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6502 Carlson Funds Enterprise: Fixed Income
2 credit(s), max credits 6, 3 repeats allowed; prerequisite [Apply to or accepted in spring-A of 1st year to begin in spring-B; recommended are [emphasis in finance mgmt, 6031, Acct 6100, Acct 6160];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6503 Carlson Ventures Enterprise
OPT No Aud, 2 credit(s), max credits 6, 3 repeats allowed; prerequisite Full-time MBA student, approved application, interview;
Instructor: Sapienza, Harry Jack
Description: Student may contact the instructor or department for information.

MBA 6505 Brands Enterprise
OPT No Aud, 2 credit(s), max credits 6, 3 repeats allowed; prerequisite Full-time MBA student, approved application, interview;
Instructor: Hopkins, David K
Description: Student may contact the instructor or department for information.
MBT 5150 Current Financial Accounting Issues  
A-F only, 2 credit(s); prereq ACCT 2050, MBT student; 
Instructor: Sellner, Mark A  
**Description:** Student may contact the instructor or department for information.

MBT 5230 Corporate Taxation I  
A-F only, 2 credit(s); prereq ACCT 5135, MBT student; 
Instructor: Sellner, Mark A  
**Description:** Student may contact the instructor or department for information.

MBT 5333 Tax Aspects of Consolidated Returns  
A-F only, 2 credit(s); prereq 5230, MBT student; 
Instructor: Mc Cormick, James Phillip  
**Description:** Student may contact the instructor or department for information.

MBT 5350 Wealth Transfer I (Estates and Gifts)  
A-F only, 2 credit(s); prereq ACCT 5135, MBT student; 
Instructor: Skonnord, Eric Jenal  
**Description:** Student may contact the instructor or department for information.

MBT 5353 Income Taxation of Fiduciaries  
A-F only, 2 credit(s); prereq Acct 5135, MBT student; 
Instructor: Bedosky, John Richard  
**Description:** Student may contact the instructor or department for information.

MBT 5356 Taxation of Qualified Retirement Plans  
A-F only, 2 credit(s); prereq ACCT 5135, MBT student; 
Instructor: Clark, Keith H  
**Description:** Student may contact the instructor or department for information.

MBT 5360 State and Local Taxation  
A-F only, 2 credit(s); prereq Acct 5135, MBT student; 
Instructor: Busacker, Dale Herman  
**Description:** Student may contact the instructor or department for information.

MBT 5363 Taxation of Executive Compensation  
A-F only, 2 credit(s); prereq ACCT 5135, MBT Student;  
Instructor: Clark, Keith H  
**Description:** Student may contact the instructor or department for information.

MBT 5373 Taxation of Inventories  
A-F only, 2 credit(s); prereq ACCT 5135, MBT student;  
Instructor: Sehman, Thomas Robert  
**Description:** Student may contact the instructor or department for information.

MBT 5420 Current Topics in Taxation  
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; 
prereq ACCT 5135, MBT student; 
Instructor: Sellner, Mark A  
**Description:** Student may contact the instructor or department for information.

MBT 5500 Business, Government, and Economic Tax Policy  
A-F only, 4 credit(s); prereq Acct 5135, MBT student; 
Instructor: Wilensky, Alan Jay  
**Description:** Student may contact the instructor or department for information.

**MATS 3041 Industrial Assignment I**  
A-F only, 2 credit(s); prereq Mats 3041, completion of required courses in Mats program through fall sem of 3rd yr, GPA of at least 2.80, regis in co-op program; Credit will not be granted if credit has been received for: CHEN 3041;  
Instructor: STAFF  
**Description:** MatS 3041. Industrial Assignment I, (2 cr, MatS upper div, regis in MatS co-op program, completion of required courses in MatS program through Fall semester/3rd yr) First industrial work assignment in engineering co-op program. Evaluation based on formal written report describing the semester's work assignment.  
**Style:** On-the-job training  
**Grading:** 100% reports/papers.

**MATS 3851W Materials Properties Lab**  
A-F only, 3 credit(s); prereq [3011, MatS upper div] or dept consent ; Meets CLE req of Writing Intensive;  
Instructor: Schott, Jeffrey H.  
**Description:** Student may contact the instructor or department for information.

**MATS 4002 Mass Transport and Kinetics**  
A-F only, 4 credit(s); prereq CE 3101, upper div MatS;  
Instructor: Shores, David A  
**Description:** This course is intended for 3rd year Materials Science undergraduates and science graduate students. The course content is focused on the mechanisms of mass transport in solids, esp. solid state diffusion in metals, sense conductors and ceramics, and on kinetic of processes occurring in solids, esp. rates of transportations in ceramics and metals, and rates of gas-solid chemical reactions. Source materials are chapters in several books and paper from scientific journals.  
**Style:** 75% Lecture, 25% Discussion.  
**Grading:** 35% mid exam, 45% quizzes, 25% problem solving.  
**Exam Format:** Problem solving.

**MATS 4041 Industrial Assignment II**  
A-F only, 2 credit(s); prereq 3041, completion of required courses in MatS program through fall sem of 4th yr, GPA of at least 2.80, registration in co-op program; Credit will not be granted if credit has been received for: MATS 3041;  
Instructor: STAFF  
**Description:** MatS 4041. Industrial Assignment II, (2 cr, MatS upper div, regis in MatS co-op program, completion of required courses in MatS program through Fall semester/4th yr) Second industrial work assignment in engineering co-op program. Evaluation based on formal written report describing the semester's work assignment.  
**Style:** On-the-job training  
**Grading:** 100% reports/papers.
be granted if credit has been received for: CHEN 4041;
Instructor: STAFF
Description: Mats 4041, Industrial Assignment II (2 cr., regis in Mats co-op program, completion of required courses in Mats program through Fall semester/yr 4) Second industrial work assignment in Mats co-op program. Application of Materials Science principles to the solution of engineering design problems in an industrial work environment. Evaluation based on formal written report emphasizing design issues derived from work assignment.
Style: On-the-job training
Grading: 100% reports/papers.

MATS 4214 Polymers
A-F only, 3 credit(s); prereq [3011, [4001 OR CHEN 4101], [upper div Mats or ChEn]] or instr consent;
Instructor: Bates, Frank S
Description: Polymer synthesis, characterization, structure property relations. Polymerization types: free radial, condensation, ionic, coordination polymerization kinetics and reactors; molecular weight distribution and its characteristics; network formation; swelling. Structure and morphology of the crystalline and amorphous state. Crystalization kinetics, vitrification and the glass transition, rubber elasticity, viscoelasticity, mechanical properties, failure, permeability, optical and electrical properties, polymer composites. On successful completion of this course, students will understand how most polymers are made and how they are characterized. They will be able to design simple synthetic schemes to produce a polymer of desired size and microstructure. They will understand how size and microstructure control properties. They will be able to select polymeric materials to meet specific property requirements.
Style: 95% Lecture, 5% Discussion.
Grading: 40% mid exam, 35% final exam, 25% problem solving.

MATS 4223W Polymer Laboratory
2 credit(s); prereq 4214 or Concurrent registration is required (or allowed) in 4214 or CHEM 4214 or Concurrent registration is required (or allowed) in CHEM 4214 or MATS 4214 or Concurrent registration is required (or allowed) in MATS 4214 or instr consent; Credit will not be granted if credit has been received for: CHEM 4223W; Meets CLE req of Writing Intensive;
Instructor: Hillmyer, Marc Andrew
Description: Style: 20% Lecture, 80% Laboratory.
Grading: 60% reports/papers, 20% written homework, 20% laboratory evaluation.

MATS 4301W Materials Processing
A-F only, 4 credit(s); prereq 4212, [4214 or Concurrent registration is required (or allowed) in 4214]; Meets CLE req of Writing Intensive;
Instructor: Francis, Lorraine F
Description: Student may contact the instructor or department for information.

MATS 4400 Senior Design Project
A-F only, 3 credit(s); prereq Sr, [Mats major or ChEn major]; Credit will not be granted if credit has been received for:
MATS 4402;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

MATS 4402 Senior Design Thesis II
A-F only, 2 credit(s); prereq 4401; Credit will not be granted if credit has been received for: MATS 4400;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

MATS 4591 Independent Study in Materials Science
OPT No Aud, 1-3 credit(s), max credits 6, 3 repeats allowed; prereq Upper div mat sci;
Instructor: STAFF
Description: Library, theoretical, laboratory, or design studies of scientific or engineering topics in materials science for an individual student. Course content and credits by arrangement with faculty supervisor. Design credits available if arranged with supervisor. May be used for Upper Division Honors Program experience if arranged with advisor and Honors advisor.

MATS 4593 Directed Study in Materials Science
A-F only, 1-4 credit(s), max credits 6, 3 repeats allowed; prereq Upper div MatSci;
Instructor: STAFF
Description: Directed study under faculty supervision. Student should meet with faculty supervisor before registering to arrange study project, grading option, credits, and final report requirements.

MATS 4594 Directed Research in Materials Science
OPT No Aud, 1-3 credit(s), max credits 6, 3 repeats allowed; prereq Upper div mat sci;
Instructor: STAFF
Description: Independent laboratory research under faculty supervision. Student should meet with faculty supervisor before registering to arrange research project, credits, grading option, and final report requirements.

MATS 5517 Electron Microscopy
A-F only, 3 credit(s);
Instructor: Mkhoyan, Andre
Description: Student may contact the instructor or department for information.

MATS 8003 Electronic Properties
A-F only, 3 credit(s); prereq instr consent;
Instructor: Leighton, Chris
Description: Student may contact the instructor or department for information.

MATS 8004 Mechanical Properties
A-F only, 3 credit(s);
Instructor: Cococcioni, Matteo
Description: Student may contact the instructor or department for information.

MATS 8211 Physical Chemistry of Polymers
4 credit(s); prereq Undergrad physical chem or instr consent; Credit will not be granted if credit has been received for:
CHEM 8211;
Instructor: Lodge, Timothy P
Description: Student may contact the instructor or department for information.

MATS 8993 Directed Study
1-12 credit(s), max credits 12, 1 repeat allowed;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

MATS 8994 Directed Research
1-12 credit(s), max credits 12, 1 repeat allowed;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

MATS 8995 Special Topics
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

Mathematics
127 Vincent Hall
MATH 1001 Excursions in Mathematics  
3 credit(s); prereq 3 yrs high school math or placement exam or grade of at least C- in GC 0731; Meets CLE req of Mathematical Thinking Core;  
Instructor: Hanhart, Alexander L  
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability  
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;  
Instructor: Guest, John E  
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability  
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;  
Instructor: Stottlemeyer, PhD, Janet  
Description: Style: 60% Lecture, 40% Discussion.  
Grading: 55% mid exam, 35% final exam, 10% written homework.

MATH 1031 College Algebra and Probability  
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;  
Instructor: Kinney, Donald Patrick  
Description: This is a course in algebra and analytic geometry beyond the usual coverage found in a three-year high school mathematics program. This course is equivalent to Math 1051, Precalculus I.  
Grading: 40% mid exam, 40% final exam, 20% written homework.

MATH 1031 College Algebra and Probability  
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;  
Instructor: Striker, Jessica Palencia  
Description: Student may contact the instructor or department for information.

MATH 1038 College Algebra and Probability Submodule  
A-F only, 1 credit(s); prereq 1051 or 1151 or 1155;  
Instructor: STAFF  
Description: Intended for students who have already had the equivalent of Math 1051 and need the Probability and Counting component of Math 1031. Students take the first part of Math 1031, and their grade is based on their performance up to the first midterm exam. Contact the department to get a permission number into this class. Students will register to Math 1038 but attend a section of Math 1031. Students should choose a section of Math 1031 they wish to attend before contacting the department.

MATH 1051 Precalculus I  
3 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1031, 1151, 1155;  
Instructor: Robertson, Douglas Frederick  
Description: This course assumes that students have a good working knowledge of high school algebra, at least through Algebra II even though the course begins with a very brief review of high school algebra. Students needing a more extensive review should register for PsTL 0732 Intermediate Algebra. Topics include linear, quadratic, polynomial, and rational equations and inequalities; graphs of equations, including lines, circles, parabolas, polynomial, rational, exponential, and logarithmic functions; compositions and inverses of functions; transformations of graphs; linear and quadratic models; linear, absolute value, polynomial, rational, exponential, and logarithmic functions, with applications. This course is for students who wish to complete precalculus at a moderate pace; the Math 1051/Math 1151 combination is equivalent to Math 1155 Intensive Precalculus and satisfies the prerequisite for Math 1271 or Math 1371. Math 1051 and Math 1038 essentially equals Math 1031 and satisfies the CLE Mathematical Thinking requirement  
Style: 75% Lecture, 25% Discussion.  
Grading: 60% mid exam, 30% final exam, 10% written homework.  
Exam Format: Solve problems such as "Graph f(x) = (x^3 - 1)/(x^2 - 9)"

MATH 1051 Precalculus I  
3 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1031, 1151, 1155;  
Instructor: Kinney, Donald Patrick  
Description: Student may contact the instructor or department for information.

MATH 1142 Short Calculus  
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: MATH 1271; Meets CLE req of Mathematical Thinking Core;  
Instructor: Corbett, John Paul  
Description: Student may contact the instructor or department for information.

MATH 1142 Short Calculus  
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: MATH 1271; Meets CLE req of Mathematical Thinking Core;  
Instructor: Lindaman, Brian J  
Description: Student may contact the instructor or department for information.

MATH 1142 Short Calculus  
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: MATH 1271; Meets CLE req of Mathematical Thinking Core;  
Instructor: Ciocan-Fontanine, Ionut  
Description: Student may contact the instructor or department for information.

MATH 1151 Precalculus II  
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [1031 or 1051] credit will not be granted if credit received for: Math1155; Meets CLE req of Mathematical Thinking Core;  
Instructor: Lyubeznik, Gennady  
Description: Student may contact the instructor or department for information.

MATH 1155 Intensive Precalculus  
5 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: Math 1031, 1051, 1151; Meets CLE req of Mathematical Thinking Core;  
Instructor: Striker, Jessica Palencia  
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I  
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;  
Instructor: Adams, Scot Robert  
Description: Student may contact the instructor or department for information.
MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core; Instructor: O'Hara, Eoin Joseph
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core; Instructor: Choffrut, Antoine
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core; Instructor: Boavida, Joao Pedro
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core; Instructor: Guo, Yujin
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core; Instructor: Ruffa, Gregory James
Description: Student may contact the instructor or department for information.

MATH 1272 Calculus II
4 credit(s); prereq [1271 or equiv] with grade of at least C-; Credit will not be granted if credit has been received for: MATH 1372; Instructor: O'Hara, Eoin Joseph
Description: Student may contact the instructor or department for information.

MATH 1272 Calculus II
4 credit(s); prereq [1271 or equiv] with grade of at least C-; Credit will not be granted if credit has been received for: MATH 1372; Instructor: Mori, Yoichiro
Description: Student may contact the instructor or department for information.

MATH 1272 Calculus II
4 credit(s); prereq [1271 or equiv] with grade of at least C-; Credit will not be granted if credit has been received for: MATH 1372; Instructor: Pogan, Alexandru Alin
Description: Student may contact the instructor or department for information.

MATH 1372 IT Calculus II
4 credit(s); prereq IT, grade of at least C- in 1371; Credit will not be granted if credit has been received for: MATH 1272; Instructor: Miracle, Chester L
Description: Student may contact the instructor or department for information.

MATH 1372 IT Calculus II
4 credit(s); prereq IT, grade of at least C- in 1371; Credit will not be granted if credit has been received for: MATH 1272; Instructor: Spiri, Daniel
Description: Student may contact the instructor or department for information.

MATH 1572H Honors Calculus II
4 credit(s); prereq Honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: MATH 1272; Instructor: Priky, Karel L
Description: Student may contact the instructor or department for information.

MATH 2243 Linear Algebra and Differential Equations
4 credit(s); prereq 1272 or 1282 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2373; Instructor: Hewitt, Harlan A
Description: Student may contact the instructor or department for information.

MATH 2243 Linear Algebra and Differential Equations
4 credit(s); prereq 1272 or 1282 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2373; Instructor: Bramson, Maury Daniel
Description: Student may contact the instructor or department for information.

MATH 2243 Linear Algebra and Differential Equations
4 credit(s); prereq 1272 or 1282 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2373; Instructor: Bobkov, Sergey G
Description: Student may contact the instructor or department for information.

MATH 2263 Multivariable Calculus
4 credit(s); prereq 1272 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2374; Instructor: Hejhal, Dennis A
Description: Student may contact the instructor or department for information.

MATH 2263 Multivariable Calculus
4 credit(s); prereq 1272 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2374; Instructor: Hejhal, Dennis A
Description: Student may contact the instructor or department for information.

MATH 2263 Multivariable Calculus
4 credit(s); prereq 1272 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2374; Instructor: Gulliver II, Robert D
Description: Student may contact the instructor or department for information.

MATH 2283 Sequences, Series, and Foundations
3 credit(s); prereq concurrent enrollment [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 3283W; Instructor: Hejhal, Dennis A
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
<th>Instructor(s)</th>
<th>Department</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Notes</th>
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<tr>
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<td>Linear Algebra and Differential Equations</td>
<td>Miracle, Chester L</td>
<td>Mathematics</td>
<td>4</td>
<td>[1272 or 1282 or 1372 or 1572], IT</td>
<td>Credit will not be granted if credit has been received for: MATH 2243; Student may contact the instructor or department for information</td>
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<td>Linear Algebra and Differential Equations</td>
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<td>Linear Algebra and Differential Equations</td>
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<td>MATH 2263</td>
<td>Multivariable Calculus and Vector Analysis</td>
<td>Sayas, Francisco Javier</td>
<td>Mathematics</td>
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<td>[1272 or 1282 or 1372 or 1572], IT</td>
<td>Credit will not be granted if credit has been received for: MATH 2263; Student may contact the instructor or department for information</td>
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<td>MATH 2263</td>
<td>Multivariable Calculus and Vector Analysis</td>
<td>Brenner, Eliot P</td>
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<td>Credit will not be granted if credit has been received for: MATH 2263; Student may contact the instructor or department for information</td>
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<td>MATH 2283</td>
<td>Sequences, Series, and Foundations: Writing</td>
<td>Polacik, Peter</td>
<td>Mathematics</td>
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<td>[1272 or 1282 or 1372 or 1572], IT</td>
<td>Credit will not be granted if credit has been received for: MATH 2283; Student may contact the instructor or department for information</td>
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<td>Griffith, Stephen P</td>
<td>Mathematics</td>
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<td>Credit will not be granted if credit has been received for: MATH 2283; Student may contact the instructor or department for information</td>
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<td>Sequences, Series, and Foundations: Writing</td>
<td>Post, Sarah Isabelle Meyer</td>
<td>Mathematics</td>
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<td>Mathematics</td>
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<td>Mathematics</td>
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<td>Webb, Peter Joseph</td>
<td>Mathematics</td>
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<td>[1272 or 1282 or 1372 or 1572], IT</td>
<td>Credit will not be granted if credit has been received for: MATH 2283; Student may contact the instructor or department for information</td>
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<td>Miller, Alexander Rossi</td>
<td>Mathematics</td>
<td>4</td>
<td>[1272 or 1282 or 1372 or 1572], IT</td>
<td>Credit will not be granted if credit has been received for: MATH 2283; Student may contact the instructor or department for information</td>
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</table>

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MATH 4512 Differential Equations with Applications
3 credit(s); prereq 2243 or 2373 or 2573;
Instructor: Safronov, Mikhail V
Description: Student may contact the instructor or department for information.

MATH 4567 Applied Fourier Analysis
4 credit(s); prereq 2243 or 2373 or 2573;
Instructor: Littman, Walter
Description: Student may contact the instructor or department for information.

MATH 4606 Advanced Calculus
4 credit(s); prereq [2263 or 2374 or 2573], [2283 or 2574 or 3283] or instr consent;
Credit will not be granted if credit has been received for: 5615;
Instructor: Littman, Walter
Description: Student may contact the instructor or department for information.

MATH 4653 Elementary Probability
4 credit(s); prereq [2263 or 2374 or 2573]; [2283 or 2574 or 3283] recommended;
Instructor: Gray, Lawrence F
Description: Student may contact the instructor or department for information.

MATH 4707 Introduction to Combinatorics and Graph Theory
4 credit(s); prereq 2243, [2263 or 2373];
Instructor: Vasquez Rifo, Elisa
Description: Student may contact the instructor or department for information.

MATH 4995 Senior Project for CLA
A-F only, 1 credit(s); prereq 2 sem of upper div math, dept consent;
Instructor: Rognes, Jonathan Peter
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max 2 credits; prereq 2 sem upper div math, dept consent;
Meets CLE req of Writing Intensive;
Instructor: Roberts, Joel L
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max 2 credits; prereq 2 sem upper div math, dept consent;
Meets CLE req of Writing Intensive;
Instructor: O'Brien, Larry John
Description: Student may contact the instructor or department for information.

MATH 5068 Actuarial Mathematics II
4 credit(s); prereq 5067;
Instructor: O'Brien, Larry John
Description: Student may contact the instructor or department for information.

MATH 5076 Mathematics of Options, Futures, and Derivative Securities II
A-F only, 4 credit(s); prereq 5075;
Instructor: Shemyakin, Arkady
Description: Student may contact the instructor or department for information.

MATH 5166 Mathematical Logic II
4 credit(s); prereq 5165;
Instructor: Richter, Wayne H
Description: Math 5166 is part of a year course in Mathematical Logic. It is a continuation of Math 5165.
Topics covered include a study of algorithms and first-order logic. However, since the course is a direct continuation of Math 5165 it is not recommended that students take this course without first taking Math 5165.

MATH 5248 Cryptology and Number Theory
4 credit(s); prereq 2 sems soph math;
Instructor: Treumann, David Lang
Description: Student may contact the instructor or department for information.

MATH 5251 Error-Correcting Codes, Finite Fields, Algebraic Curves
4 credit(s); prereq 2 sems soph math;
Instructor: Odlyzko, Andrew
Description: How can music CDs that have been scratched still produce perfect music? How do spacecraft out past Saturn communicate with Earth? And how do high quality movies fit on DCDs? All these depend on some pretty mathematics that is not too complicated and can be learned with minimal prerequisites, given the willingness to pick up some abstract algebraic, combinatorial, and probabilistic concepts. Detailed information from an earlier version of the course, taught by another instructor, is available at http://www.math.umn.edu/~garrett/coding/ The Spring 2009 class will be very similar.

MATH 5286H Honors: Fundamental Structures of Algebra II
4 credit(s); prereq 5285;
Instructor: Griffith, Stephen P
Description: Student may contact the instructor or department for information.

MATH 5378 Differential Geometry
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373 or 2574]; [2283 or 3283] recommended;
Instructor: Conn, Jack Frederi
Description: Student may contact the instructor or department for information.

MATH 5445 Mathematical Analysis of Biological Networks
4 credit(s); prereq Linear algebra, differential equations;
Instructor: Othmer, Hans George
Description: Student may contact the instructor or department for information.

MATH 5486 Introduction To Numerical Methods II
4 credit(s); prereq 5485;
Instructor: Nykamp, Duane Q
Description: Student may contact the instructor or department for information.

MATH 5525 Introduction to Ordinary Differential Equations
4 credit(s); prereq [2243 or 2373 or 2573], [2283 or 2574 or 3283];
Instructor: Stinis, Panos
Description: Student may contact the instructor or department for information.

MATH 5588 Elementary Partial Differential Equations II
A-F only, 4 credit(s), max credits 400, 1 repeat allowed;
prereq [2243 or 2373 or 2573], [2263 or 2374 or 2574], 5587 or instr consent;
Instructor: Bao, Shiting
Description: Student may contact the instructor or department for information.

MATH 5616H Honors: Introduction to Analysis II
4 credit(s); prereq 5615;
Instructor: Moeckel, Richard B
Description: Student may contact the instructor or department for information.
MATH 5616H Honors: Introduction to Analysis II
4 credit(s); prereq 5615; Instructor: Sell, George R
Description: Student may contact the instructor or department for information.

MATH 5651 Basic Theory of Probability and Statistics
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373]; [2283 or 2574 or 3283]; Credit will not be granted if credit has been received for: Stat 4101, Stat 5101.; Instructor: Frank, David L
Description: Student may contact the instructor or department for information.

MATH 5651 Basic Theory of Probability and Statistics
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373]; [2283 or 2574 or 3283]; Credit will not be granted if credit has been received for: Stat 4101, Stat 5101.; Instructor: Bobkov, Sergey G
Description: Student may contact the instructor or department for information.

MATH 5654 Prediction and Filtering
4 credit(s); prereq 5651 or Stat 5101.; Instructor: Baxter, John Robert
Description: Student may contact the instructor or department for information.

MATH 5707 Graph Theory and Non-enumerative Combinatorics
4 credit(s); prereq [2243 or 2373 or 2573], [2263 or 2374 or 2574]; [2283 or 3283 or experience in writing proofs] highly recommended; Credit will not be granted if credit has been received for: 4707; Instructor: Armstrong, Drew
Description: Student may contact the instructor or department for information.

MATH 8001 Preparation for College Teaching
S-N only, 1 credit(s), max credits 3, 1 repeat allowed; prereq Work for this course will extend past the end of the term. A K grade will be assigned to indicate that the course is still in progress; math grad student in good standing or instr consent; Instructor: Keynes, Harvey Bayard
Description: Student may contact the instructor or department for information.

MATH 8002 General Algebra
A-F only, 3 credit(s); prereq 8201 or instr consent; Instructor: Webb, Peter Joseph
Description: Student may contact the instructor or department for information.

MATH 8008 Theory of Modular Forms and L-Functions
A-F only, 3 credit(s); prereq 8207 or instr consent; Instructor: Jiang, Dihua
Description: Student may contact the instructor or department for information.

MATH 8246 Group Theory
A-F only, 3 credit(s); prereq 8245 or instr consent; Instructor: Cooper, Bobbe J
Description: Student may contact the instructor or department for information.

MATH 8270 Topics in Algebraic Geometry
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed; prereq Math 8201, Math 8202; offered for one year or one semester as circumstances warrant; Instructor: Messing, William
Description: Student may contact the instructor or department for information.

MATH 8272 Lie Groups and Lie Algebras
A-F only, 3 credit(s); prereq 8271 or instr consent; Instructor: Treumann, David Lang
Description: Student may contact the instructor or department for information.

MATH 8280 Topics in Number Theory
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent; offered for one year or one semester as circumstances warrant; Instructor: Garrett, Paul B
Description: Student may contact the instructor or department for information.

MATH 8302 Manifolds and Topology
A-F only, 3 credit(s); prereq 8301 or instr consent; Instructor: Kahn, Donald William
Description: Student may contact the instructor or department for information.

MATH 8302 Manifolds and Topology
A-F only, 3 credit(s); prereq 8301 or instr consent; Instructor: Kahl, Donald William
Description: Student may contact the instructor or department for information.

MATH 8307 Algebraic Topology
A-F only, 3 credit(s); prereq 8306 or instr consent; Instructor: Lawson, Tyler
Description: Student may contact the instructor or department for information.

MATH 8402 Mathematical Modeling and Methods of Applied Mathematics
A-F only, 3 credit(s); prereq 8401 or instr consent; Instructor: Calderer, Carme
Description: Student may contact the instructor or department for information.

MATH 8442 Numerical Analysis and Scientific Computing
3 credit(s); prereq 8441 or instr consent; 5477-5478 recommended for engineering and science grad students; Instructor: Luskin, Mitchell B
Description: Student may contact the instructor or department for information.

MATH 8502 Dynamical Systems and Differential Equations
A-F only, 3 credit(s); prereq 8501 or instr consent; Instructor: Scheel, Arnd
Description: Student may contact the instructor or department for information.

MATH 8520 Topics in Dynamical Systems
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed; prereq 8502; Instructor: Sell, George R
Description: Student may contact the instructor or department for information.

MATH 8572 Theory of Evolutionary Equations
A-F only, 3 credit(s); prereq 8571 or instr consent; Instructor: Polacik, Peter
Description: Student may contact the instructor or department for information.

MATH 8584 Theory of Partial Differential Equations
A-F only, 3 credit(s); prereq 8583 or instr consent; Instructor: Gulliver II, Robert D

MATH 8590 Topics in Partial Differential Equations
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
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MTHE 3101 Mathematics and Pedagogy for Elementary Teachers I  
A-F only, 4 credit(s); prereq [College algebra, elementary FOE student] or instr consent;  
Instructor: Monson, Debra Sue  
Description: Student may contact the instructor or department for information.

MTHE 3102 Mathematics and Pedagogy for Elementary Teachers II  
A-F only, 4 credit(s); prereq 3101, college algebra;  
Instructor: Wyberg, Terrence R  
Description: Student may contact the instructor or department for information.

MTHE 5031 Geometric Structures in School Mathematics  
3 credit(s); prereq Enrollment in math initial licensure program;  
Instructor: Moore, Tamara J.

Description: Student may contact the instructor or department for information.

MTHE 5355 Mathematics for Diverse Learners  
3 credit(s); prereq Teaching license or student in elem ed or special ed or instr consent;  
Instructor: Muchlinski, Tom  
Description: Student may contact the instructor or department for information.

MTHE 5366 Technology-Assisted Mathematics Instruction  
3 credit(s);  
Instructor: Wyberg, Terrence R  
Description: Student may contact the instructor or department for information.

MTHE 5696 Student Teaching in Mathematics  
S-N only, 1-8 credit(s), max credits 8, 1 repeat allowed;  
prereq MEd/initial licensure student or instr consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

MTHE 5993 Directed Studies in Mathematics Education  
S-N only, 2 credit(s), max credits 3, 1 repeat allowed;  
prereq Math ed MEd student, instr consent;  
Instructor: STAFF  
Description: Secondary school classroom teaching project designed to improve specific teaching skills, planned by student and approved and directed by student's advisor as part of MthE program.

Mechanical Engineering  
125 Mechanical Engineering

ME 3041 Industrial Assignment I  
A-F only, 2 credit(s); prereq ME upper div, enrolled in ME co-op program;  
Instructor: Marple, Virgil A  
Description: (2 cr per sem; prereq upper div ME, regis in ME co-op program; complete co-op sequence 3041, 4042, 4043 for credit req) Industrial work assignment in mechanical engineering co-op program. Evaluation based on student's formal report covering the quarter's work assignment.  
Style: On the job training  
Grading: 100% reports/papers.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes  
A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;  
Instructor: Chase, Thomas Richard  
Description: Student may contact the instructor or department for information.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes  
A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;  
Instructor: Chase, Thomas Richard  
Description: Student may contact the instructor or department for information.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes  
A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;  
Instructor: Chase, Thomas Richard  
Description: Student may contact the instructor or department for information.

ME 3222 Design and Manufacturing II
ME 3281 System Dynamics and Control
A-F only, 4 credit(s); prereq AEM 2021, [Math 2243 or Math 2373], ME upper div;
Instructor: Dumitrica, Traian
Description: Student may contact the instructor or department for information.

ME 3331 Thermal Sciences I
A-F only, 3 credit(s); prereq Chem 1021, Phys 1301, IT student;
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

ME 3332 Thermal Sciences II
A-F only, 3 credit(s); prereq Math 2243, 3331, ME upper div;
credit will not be granted if credit already received for: ME 3322;
Instructor: Shepard, Thomas Greene
Description: Student may contact the instructor or department for information.

ME 3333 Thermal Sciences III
A-F only, 3 credit(s); prereq 3332, [4031W or Concurrent registration is required (or allowed) in 4031W], ME upper div;
credit will not be granted if credit already received for: ME 3322;
Instructor: Bischof, John C
Description: Student may contact the instructor or department for information.

ME 4031W Basic Mechanical Measurements Laboratory
A-F only, 4 credit(s); prereq [3333 or Concurrent registration is required (or allowed) in 3333], IE 4521, upper div;
Meets CLE req of Writing Intensive;
Instructor: Mc Murry, Peter H
Description: Student may contact the instructor or department for information.

ME 4043W Industrial Assignment II
A-F only, 4 credit(s); prereq 3041; Meets CLE req of Writing Intensive;
Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

ME 4044 Industrial Assignment III
A-F only, 2 credit(s); prereq ME upper div, registration in ME co-op program;
Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

ME 4054W Design Projects
A-F only, 4 credit(s); prereq 2011, 3221, 3222, 3281, 3321, 3322, 4031W, AEM 2021, AEM 3031, EE 3005; Meets CLE req of Writing Intensive;
Instructor: Durfee, William K
Description: Student may contact the instructor or department for information.

ME 4131W Thermal Environmental Engineering Laboratory
A-F only, 4 credit(s); prereq 3322, 4031W, [ME upper div or grad student]; Meets CLE req of Writing Intensive;
Instructor: Ramsey, James W
Description: Student may contact the instructor or department for information.

ME 4231 Motion Control Laboratory
A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Rajamani, Rajesh
Description: Student may contact the instructor or department for information.

ME 4232 Fluid Power Control Lab
A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Stelson, Kim A
Description: Student may contact the instructor or department for information.

ME 4232 Fluid Power Control Lab
A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Stelson, Kim A
Description: Student may contact the instructor or department for information.

ME 4331 Thermal Engineering Laboratory
A-F only, 4 credit(s); prereq 3231, 3322, 4031W, [IT upper div or grad student];
Instructor: Goldstein, Richard J
Description: Student may contact the instructor or department for information.

ME 4331 Thermal Engineering Laboratory
A-F only, 4 credit(s); prereq [3231, 3322, 4031W], [IT upper div or grad student];
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

ME 5080 Topics in Mechanical Engineering: Energy-Resources & Tech
3 credit(s), max credits 4, 1 repeat allowed; prereq IT upper div or grad student, submission of permission form, instr consent;
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

ME 5090 Advanced Engineering Problems
1-4 credit(s), max credits 4, 1 repeat allowed; prereq ME upper div, instr consent;
Instructor: Kuehn, Thomas Howard
Description: Student may contact the instructor or department for information.

ME 5090 Advanced Engineering Problems
1-4 credit(s), max credits 4, 1 repeat allowed; prereq ME upper div, instr consent;
Instructor: Sparrow, Ephraim M
Description: Student may contact the instructor or department for information.

ME 5133 Aerosol Measurement Laboratory
A-F only, 4 credit(s); prereq ME upper div or graduate student;
Instructor: Pui, David Y
Description: Student may contact the instructor or department for information.

ME 5221 Computer-Assisted Product Realization
A-F only, 4 credit(s); prereq 3221, AEM 3031, CSci 1113, MatS 2001;
Instructor: Klamecki, Barne Eugene
Description: This class covers the complete product realization process from product concept design, to engineering design, to manufacturing process design, to evaluations of the designs, to product production, to product testing and evaluation. The course is structured around a project pursued by small groups of students. The overall goal of the project is the re-design of an existing injection molded consumer product so that significantly “better” performance is obtained (recently, a plastic shelving system). The course activities are defining a measure of product performance, evaluating the current product, setting a specified

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level for performance, re-designing the product using analytical and numerical analyses, designing the injection molding process for production of the product or a model-size version of the product if it is large, predicting expected product and process behavior using quantitative engineering models, producing and testing the product and comparing process and process behaviors to predictions. Professional quality computer-based tools are used in engineering analysis (ANSYS finite element program), detailed engineering design (Pro/ENGINEER design program), process design (Moldflow finite element molding simulation program) and in mold design and mold machining programming (Pro/MOLD, Pro/MANUFACTURE). Industrial quality computer-controlled milling and molding machines are used for mold and product production. The project outcomes are a product design that has been evaluated by producing and testing the product and a process design that has been evaluated by comparing predicted and measured process behavior and part characteristics. Details of a previous offering of the course are available on the course web site listed below.

**Style:** 50% Lecture, 50% Laboratory. Lecture time includes lecture, discussion and project progress presentation.

**Grading:** 50% special projects, 50% laboratory evaluation. 50% based on individual lab reports and class participation.

**Exam Format:** No examinations, 3-4 progress presentations during the semester, a group final presentation and report and 3-4 individual lab reports.

**ME 5241 Computer-Aided Engineering**

A-F only, 4 credit(s); prereq IT upper div or grad, 3222, CSci 1113 or equiv;

**Instructor:** Kelso, Frank M

**Description:** Student may contact the instructor or department for information.

**ME 5247 Stress Analysis, Sensing, and Transducers**

A-F only, 4 credit(s); prereq AEM 3031, MatS 2001;

**Instructor:** Klamecki, Barney Eugene

**Description:** The course covers the experimental determination of stress and strain using electrical resistance strain gages and photoelasticity and the selection and use of sensors for mechanical measurements. Basic aspects of these topics are considered in lecture and demonstrated in the laboratory part of the course. Finite element stress analysis is introduced in the comparison of calculated and measured stress fields. The course project is an application of the measurement techniques to a suggested mechanical engineering problem or to a problem of interest defined by the student. Detailed course content is available at the course url.

**Style:** 60% Lecture, 40% Laboratory. Two hour laboratory time to be determined at first class meeting.

**Grading:** 20% mid exam, 20% final exam, 25% reports/papers, 15% special projects. Two midterm examinations, optional final examination.

**Exam Format:** Examinations are problems similar to homework problems.

**ME 5286 Robotics**

A-F only, 4 credit(s); prereq [3281 or equiv], [upper div ME or AEM or CSci or grad student];

**Instructor:** Morellas, Vassilios

**Description:** The course deals with four major components: robot manipulators (more commonly known as the robot arm), robot vehicles, image processing and embedded computing. Lecture topics fall into two of these categories - the manipulator and image processing. Topics covered under robot manipulators include the mathematics of a 6 degree of freedom machine operating in a 3D world and the control of robot position, velocity, path and force. These require knowledge about their forward and inverse kinematics, the mathematics of homogeneous transformations and coordinate frames, the Jacobian and velocity control, task programming, computational issues related to robot control, determining path trajectories, reaction forces, manipulator dynamics and control. Topics under computer vision include image capture, digitization, feature processing, thresholding, edge detection, segmentation, feature extraction, classification, frequency domain techniques, and 3D analysis. Main project: Design and implement a guidance controller for a truck. Skeleton code is provided. The goal is to write the remaining code needed to guide a virtual truck along a specified path on a given road. There will also be several smaller projects dealing with the computer vision part of the course. Prerequisite: ME3281 System Dynamics and Control, or equivalent. Recommended: Background in C programming. However, it is possible to pick up what you need in the first few weeks of class.

**Style:** 90% Lecture, 10% Discussion.

**Grading:** 50% special projects, 50% quizzes.

**Exam Format:** Solve problems (open book, open notes).

**ME 5312 Solar Thermal Technologies**

A-F only, 4 credit(s); prereq [3333, IT upper Div] or grad student;

**Instructor:** Davidson, Jane H

**Description:** Student may contact the instructor or department for information.

**ME 5341 Case Studies in Thermal Engineering and Design**

A-F only, 4 credit(s); prereq IT upper div or grad student, 3321, 3322;

**Instructor:** Sparrow, Ephraim M

**Description:** This course may be the most useful among those offered in mechanical engineering. Real-world engineering problems are brought into the classroom. To solve problems of such real complexity, powerful computational tools are taught. These include ANSYS thermal (heat conduction), ANSYS structural and thermal stresses. The main part of the course is computational fluid dynamics (CFD). For this, CFX software is taught. These software codes are applied to numerous real-world problems. No prior experience with software is needed. No exams or quizzes. No textbook. Two projects. One-on-one computer lab help is available.

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thermodynamic modeling skills taught in the course. The course will include 3 hour/week classroom instruction and 1 hour/week discussion.

**Style:** 75% Lecture, 20% Small Group Activities, 5% Student Presentation.

**Grading:** 50% mid exam, 50% reports/papers.

**ME 8222 New Product Design and Business Development II**

A-F only, 4 credit(s); prereq 8221; Credit will not be granted if credit has been received for: BMEN 8402;

**Instructor:** Durfee,William K

**Description:** Student may contact the instructor or department for information.

**ME 8229 Finite Element Methods for Computational Mechanics: Transient/Dynamic Problems**

A-F only, 4 credit(s); prereq 5228 or equiv, 5341, AEM 3031, CSci 1113;

**Instructor:** Tamma,Kumar K

**Description:** Student may contact the instructor or department for information.

**ME 8268 Properties and Fabrication of Plastics and Composites**

A-F only, 4 credit(s); prereq 3221, AEM 3031, MatS 2001;

**Instructor:** Ramalingam,Subbiah

**Description:** Student may contact the instructor or department for information.

**ME 8281 Advanced Control System Design**

A-F only, 4 credit(s); prereq 5281;

**Instructor:** Li,Perry Y

**Description:** Student may contact the instructor or department for information.

**ME 8287 Topics in Dynamics and Control: Design and Control of Automotive Powertrain**

A-F only, 4 credit(s), max credits 12, 3 repeats allowed;

**Instructor:** Sun,Zongxuan

**Description:** Student may contact the instructor or department for information.

**ME 8342 Convection**

A-F only, 3 credit(s); prereq Grad level course on fundamentals of fluid mechanics that has a substantial component on viscous flows or instr consent ;

**Instructor:** Simon,Terrence W

**Description:** Student may contact the instructor or department for information.

**ME 8390 Advanced Topics in the Thermal Sciences: Heat and Mass Transfer for Biomedical Applications**

A-F only, 1 credit(s), max credits 6, 6 repeats allowed;

**Instructor:** Sparrow,Ephraim M

**Description:** Student may contact the instructor or department for information.

**ME 8390 Advanced Topics in the Thermal Sciences: Fluid Flow in the Human Body**

A-F only, 1 credit(s), max credits 6, 6 repeats allowed;

**Instructor:** Sparrow,Ephraim M

**Description:** Student may contact the instructor or department for information.

**ME 8390 Advanced Topics in the Thermal Sciences: Fluid Flow in the Human Body**

A-F only, 1 credit(s), max credits 6, 6 repeats allowed;

**Instructor:** Sparrow,Ephraim M

**Description:** Student may contact the instructor or department for information.

**ME 8390 Advanced Topics in the Thermal Sciences: Heat and Mass Transfer for Biomedical Applications**

A-F only, 1 credit(s), max credits 6, 6 repeats allowed;

**Instructor:** Sparrow,Ephraim M

**Description:** Student may contact the instructor or department for information.

**ME 8390 Advanced Topics in the Thermal Sciences: Thermal-Based Replacements for Conventional Surger**

A-F only, 1 credit(s), max credits 6, 6 repeats allowed;

**Instructor:** Sparrow,Ephraim M

**Description:** Student may contact the instructor or department for information.

**ME 8773 Graduate Seminar**

S-N only, 1 credit(s); prereq IT grad student;

**Instructor:** Garrick,Sean Clifford

**Description:** Student may contact the instructor or department for information.

**ME 8774 Graduate Seminar**

S-N only, 1 credit(s); prereq 8773;

**Instructor:** Garrick,Sean Clifford

**Description:** Student may contact the instructor or department for information.

**ME 8794 Mechanical Engineering Research**

1-6 credit(s), max credits 10, 10 repeats allowed; prereq instr consent ;

**Instructor:** Durfee,William K

**Description:** Student may contact the instructor or department for information.

**ME 8953 Plan B**

A-F only, 2 credit(s); prereq 8951;

**Instructor:** Kortshagen,Uwe Richard

**Description:** Student may contact the instructor or department for information.

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**Medical Industry Leadership Institute**

4-145 Carlson School of Management

**MILI 6235 Pharmaceutical Industry: Business and Policy**

A-F only, 2 credit(s); prereq MBA student;

**Instructor:** Connor,Robert Alan

**Description:** Pharmaceutical Industry: Business and Policy: This course is a joint venture of the Carlson School of Management and the College of Pharmacy at the University of Minnesota. In addition to academic faculty from these schools, the course also engages the participation of key leaders in the pharmaceutical industry and the health sector in general. The panel format, followed by receptions during which students can meet executives, facilitates opportunities for interaction among guest faculty and students. This course is designed to engage full-time and working professional students in the fields of management and pharmacy though interdisciplinary exposure to key business and policy aspects of the pharmaceutical industry. For general management students, it provides exposure to the technical, clinical and policy issues of the pharmaceutical industry. For pharmacy students, it provides additional exposure to the business, financial, and entrepreneurial aspects of the pharmaceutical industry. For all, it provides an excellent opportunity for interdisciplinary learning and networking.

**Instructor:** Parente,Stephen T

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Description: Hands-on experience in creating a value proposition for new medical technologies. Leadership pathways in medical technology, insurance, and delivery industries. Personal input from industry leaders United Health Group, Medtronic, and Mayo Clinic.

MILI 6726 Medical Device Industry: Business and Public Policy
A-F only, 3 credit(s); prereq MBA student;
Instructor: Connor, Robert Alan
Description: Medical Device Industry: Business and Public Policy: This course covers the unique business, public policy, regulatory, and technology management issues of the medical device industry -- including growing interaction and overlap with the pharmaceutical, biotechnology, and information technology industries. The course features lecture and discussion with full time faculty, along with participation by industry leaders in guest faculty panels. Students successfully completing this course will understand: the historical development, importance, and future direction of the medical device industry; FDA issues, policies and strategies, public and private sector insurance coverage and reimbursement; interaction between public policies and private sector actions; intellectual property (IP) and liability issues concerning medical technology; and key issues relating to the start-up and management of new medical technology firms.

MILI 6990 The Health Care Marketplace
A-F only, 2 credit(s); prereq MBA student;
Instructor: Parente, Stephen T
Description: Survey of trillion dollar medical industry. Physician/hospital services, insurance, pharmaceuticals, medical devices, information technology. Scale, inter-relationships, market opportunities, barriers.

MILI 6991 Anatomy and Physiology for Managers
A-F only, 2 credit(s);
Instructor: Hertzberg, Jeffrey K
Description: Overview of medical vocabulary/physiology of major body systems. Understanding current clinical practice. Market opportunities of major body systems, Medical technology innovation.

MILI 6995 University Medical Industry Enterprise
OPT No Aud, 2 credit(s), max credits 6, 3 repeats allowed;
prereq Grad student;
Instructor: STAFF
Description: Interdisciplinary student teams create rapid production market analysis of promising medical technologies/services to determine potential for success in market. Exposure to University innovations, venture firms, inventors.

MILI 6999 Independent Study
A-F only, 1-8 credit(s), max credits 8, 1 repeat allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MEDC 5710 General Principles of Medicinal Chemistry
A-F only, 2 credit(s); prereq MedC grad student or instr consent;
Instructor: Amin, Elizabeth Ambrose
Description: Student may contact the instructor or department for information.

MEDC 8100 Medicinal Chemistry Seminar
1 credit(s), max credits 6, 6 repeats allowed; prereq Grad major or instr consent;
Instructor: Abul-Haj, Yusuf J
Description: Student may contact the instructor or department for information.

MEDC 8700 Advanced Concepts in Drug Design
A-F only, 2 credit(s); prereq 5600 or instr consent; Credit will not be granted if credit has been received for: PHAR 6247H;
Instructor: Trtynyakova, Natalia Yurievna
Description: Student may contact the instructor or department for information.

MEDC 8760 Design of Peptidomimetics
A-F only, 2 credit(s); prereq 5600 or instr consent;
Instructor: Johnson, Rodney L.
Description: Student may contact the instructor or department for information.

MEDC 8800 Medicinal Chemistry Laboratory Techniques
S-N only, 1-2 credit(s), max credits 4, 4 repeats allowed; prereq Grad med chem major or instr consent;
Instructor: Wagner, Carston R
Description: Student may contact the instructor or department for information.

MEDC 8900 Research in Medicinal Chemistry
A-F only, 1-4 credit(s), max credits 8, 8 repeats allowed; prereq Grad med chem major or instr consent;
Instructor: Wagner, Carston R
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Shackelford, Jole Richard
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3-4 credit(s), max credits 24, 8 repeats allowed;
Instructor: Swedo, Elizabeth M
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Larkin, Christopher R
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Madden, Mollie M
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3-4 credit(s), max credits 24, 8 repeats allowed;
Instructor: Schroeter, Daniel J
Description: The Jewish Diaspora that emerged in late antiquity and the early Middle Ages was remarkably diverse, while at the same time Jews shared common religious and cultural traditions. This course explores how Jews were shaped by the societies and cultures of the Islamic Mediterranean World and Christian Europe from 700 to 1700, while maintaining a distinctive identity. Under the dominant religions of Islam and Christianity, Jews developed autonomous religious and cultural institutions and communities, which frequently changed as Jews were influenced by and adapted to their cultural surroundings and changing historical circumstances. The relationship between diverse Jewish communities throughout the Muslim Mediterranean and Christian Europe is explored. The connections between communities were created and maintained through trade, travel, and the exchange of rabbinical culture and Jewish religious...
authority across political boundaries. While Jewish status differed under Muslim and Christian rule, this course explores how the experience of Jews was influenced by changing local circumstances; migrations, expulsions, violence, persecution, and resettlement in new locations with the expansion of trade routes and political change in both the Islamic and Christian worlds.

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 20% mid exam, 35% final exam, 30% reports/papers, 15% class participation.

**MEST 5610 Advanced Topics in Medieval Studies**

3 credit(s), max credits 15, 5 repeats allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent;

**Instructor:** Bachrach, Bernard S

**Description:** This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern periods. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfaith contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disputation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

**Style:** 100% Discussion.

**Grading:** 50% reports/papers, 50% class participation.

**MICB 3301 Biology of Microorganisms**

A-F only, 3 credit(s); prereq [BIOL 1002 or BIOL 1009 or BIOL 2002], CHEM 2301. Concurrent registration is required (or allowed) in CHEM 2302: Credit will not be granted if credit has been received for: VBS 2032.

**Instructor:** Mohr, Christian D

**Description:** Course covers the taxonomy, physiology, biochemistry, pathogenesis, immunology, and ecology of microbes including fungi, bacteria, and viruses. Molecular structure in relation to microbial function and disease is also covered. Course includes a laboratory. Course will utilize WEBCT VISTA. Course texts: MicB 3301 Laboratory Manual, Microbiology - Prescott, Harley and Klein, McGraw-Hill, 6th Edition. Target audience: undergraduate science majors (including Biology, Biochemistry, Microbiology, Cell Biology, and Genetics).

**Style:** 60% Lecture, 40% Laboratory.

**Grading:** 60% other evaluation. based on four exams; 40% based on laboratory quizzes, reports and performance

**Exam Format:** Short answer, fill in the blank, true/false, multiple choice

**Microbiology Engineering 240 Gortner Lab**

- **MICB 4121 Microbial Ecology and Applied Microbiology**
  
  A-F only, 3 credit(s), max credits 48, 16 repeats allowed; prereq Appropriate language, instr consent;

  **Instructor:** Noakes, Susan J

  **Description:** This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfaith contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disputation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

  **Style:** 100% Discussion.

  **Grading:** 50% reports/papers, 50% class participation.
Schedule.

Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

Description: MicB 4151 will explore the biochemical and genetic

Cleary, Paul Patrick

[Biol 4003 or GCD 3022] recommended; required (or allowed) in 4131, [BioC 3021 or BioC 4331]; 3 credit(s); prereq [3301, [4131 or Concurrent registration is mandatory small group meetings, focused on writing in the discipline. These meetings will be arranged on the first day of class. Note: attached syllabus is for last year! Style: 60% Lecture, 23% Discussion, 15% Small Group Activities, 2% Guest Speakers. Active learning, discussion; Two time options will be presented for the small writing group meetings.

Grading: 20% final exam, 35% reports/papers, 7% quizzes, 10% written homework, 20% additional semester exams, 8% class participation. iClicker questions/quizizzes together will count for 15% of the total achievable points.

Exam Format: Multiple choice, short answer, short essay. Study guides preview many of the possible essay questions.

MICB 4141W Biology, Genetics, and Pathogenesis of Viruses: Writing Intensive

4 credit(s); prereq [[BIOC 3021, BIOL 4003], [3301 or BIOL 4004], 4131] or instr consent ; Credit will not be granted if credit has been received for: MICB 4171; Meets CLE req of Writing Intensive;

Instructor: Schiff, Leslie Ann

Description: MicB 4141W is a writing intensive virology course aimed at upper level undergraduates. The lecture portion of the course is identical to MicB 4171. Microbiology majors have priority for the seats in 4141W. The course is a principle-based (not a virus-by-virus) discussion of virology, emphasizing the common reactions that must be completed by all viruses for successful replication within a host cell and survival and spread within a host population. The molecular basis of alternative reproductive cycles, the interactions of viruses with host organisms, and how these lead to disease will be presented with examples drawn from a set of representative animal viruses. To achieve course objectives, lectures are combined with active learning techniques and activities. This year we will use iClickers to engage with the material and each other! Students will also be asked to write informally in class on index cards or in response to learning prompts on a WebCT site. Note: 4171 has an integral WebCT site on which lecture outlines, study guides, info updates and learning prompts are posted. Students use the site to participate by asking and answering questions and extending course discussions. 4171 is IDENTICAL to 4141W with the exception that 4141W students will also participate in ~8 mandatory small group meetings, focused on writing in the discipline, and complete additional assignments. NOTE: Attached syllabus is for last year!

Style: 70% Lecture, 12% Discussion, 15% Small Group Activities, 3% Guest Speakers.

Grading: 45% mid exam, 25% final exam, 5% reports/papers, 7% quizzes, 10% written homework, 8% class participation. You can opt out of two activities (a jigsaw and the model breakfast). In this case your final exam would be worth 30% instead of 25%. iClicker questions/quizzes together will count for 15% of the total achievable points.

Exam Format: Multiple choice, short answer, short essay. Study guides preview many of the possible essay questions.

MICB 4235 Advanced Laboratory: Virology, Immunology, and Microbial Genetics

3 credit(s); prereq 3301, BIOC 3021, two [one completed, one concurrent] from [4131, 4141W, 4151, 4171];

Instructor: Bresnahan, Wade A

Description: This laboratory course provides students with hands on training using state of the art molecular biology techniques to address fundamental questions in biology. Emphasis will be placed on techniques relating to virology, immunology, bacterial genetics, and molecular biology, however, all techniques covered in this course are widely used in all biology specialties (i.e., neurobiology, genetics, cell biology, etc). Specific topics covered in the course include DNA, RNA and protein analysis, gene cloning, virus propagation, flow cytometry, bioassays, and cell culture techniques.

Style: 10% Lecture. 90% Laboratory.

Grading: 40% mid exam, 25% final exam, 30% reports/papers,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Restrictions</th>
<th>Instructor</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MELC 3533</td>
<td>Islam and the West</td>
<td>3 credit(s); Credit will not be granted if credit has been received for: CAS 3533;</td>
<td>Bashiri, Iraj</td>
<td>Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation. Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation. Grading: 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.</td>
</tr>
<tr>
<td>MILC 3601</td>
<td>Persian Fiction in Translation</td>
<td>3 credit(s); Credit will not be granted if credit has been received for: CAS 3601; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;</td>
<td>Bashiri, Iraj</td>
<td>Prose fiction was introduced to Iranian society in the early 1920's by Iranian intellectuals returning from Europe. In the beginning it had a difficulty finding a place in Persian literature, but finally it found a niche. Spearheaded by Muhammad Ali Jamalzadeh and promoted by Sadeq Hedayat, prose fiction became Iran's most prominent vehicle for self expression. Young authors, first in the urban centers and later in the countryside used this vehicle for familiarizing their countrymen with the new world realities. the development of Persian fiction In the context of Iran's ancient heritage, students become acquainted with both the internal and external forces that bind contemporary Iranian society to world civilization. The works of Jamalzadeh (Persian Is Sugar), Hedayat (The Blind Owl, The Stray Dog), Al-i Ahmad (The China Vase, Fascinated by the West), Behrangi (The Little Black Fish), and others are analyzed and discussed. Style: 70% Lecture. 20% Discussion. Video tapes Grading: 10% mid exam, 15% final exam, 30% reports/papers, 20% quizzes, 10% class participation, 12% other evaluation. book report; 3% attendance Exam Format: Essay</td>
</tr>
<tr>
<td>MICA 8003</td>
<td>Immune and Immunopathology</td>
<td>4 credit(s); prereq Upper level undergrad immunology course or instr consent ;</td>
<td>Jenkins, Mark</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MICA 8004</td>
<td>Cellular and Cancer Biology</td>
<td>A-F only, 4 credit(s); prereq [One undergrad or grad course each in [biochemistry, cell biology]] or instr consent ;</td>
<td>Armstrong, Sandra</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MICA 8009</td>
<td>Biochemical Aspects of Normal and Abnormal Cell Growth and Cell Death</td>
<td>2 credit(s); prereq 8004 or [BioC 3021, Biol 4004] or instr consent ;</td>
<td>Jenkins, Mark</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MICA 8910</td>
<td>Seminar: Faculty Research Topics</td>
<td>S-N only, 1 credit(s), max credits 10, 10 repeats allowed; prereq [MIMP or MICA] grad student or</td>
<td>Armstrong, Sandra</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MICA 8920</td>
<td>Seminar: Student Research Topics</td>
<td>S-N only, 1 credit(s), max credits 10, 10 repeats allowed; prereq [MIMP or MICA] grad student or instr consent ;</td>
<td>Armstrong, Sandra</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MELC 5601</td>
<td>Persian Fiction in Translation</td>
<td>3 credit(s); Credit will not be granted if credit has been received for: CAS 5601; Perspect Theme; meets CLE req of Literature Core;</td>
<td>Bashiri, Iraj</td>
<td>Prose fiction was introduced to Iranian society in the early 1920's by Iranian intellectuals returning from Europe. In the beginning it had a difficulty finding a place in Persian literature, but finally it found a niche. Spearheaded by Muhammad Ali Jamalzadeh and promoted by Sadeq Hedayat, prose fiction became Iran's most prominent vehicle for self expression. Young authors, first in the urban centers and later in the countryside used this vehicle for familiarizing their countrymen with the new world realities. the development of Persian fiction In the context of Iran's ancient heritage, students become acquainted with both the internal and external forces that bind contemporary Iranian society to world civilization. The works of Jamalzadeh (Persian Is Sugar), Hedayat (The Blind Owl, The Stray Dog), Al-i Ahmad (The China Vase, Fascinated by the West), Behrangi (The Little Black Fish), and others are analyzed and discussed. Style: 70% Lecture. 20% Discussion. Video tapes Grading: 10% mid exam, 15% final exam, 30% reports/papers, 20% quizzes, 10% class participation, 12% other evaluation. book report; 3% attendance Exam Format: Essay</td>
</tr>
<tr>
<td>MIL 104</td>
<td>Military Science I Leadership Lab</td>
<td>A-F only, 0 credit(s); prereq 1102;</td>
<td>STAFF</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MIL 204</td>
<td>Military Science II Leadership Lab</td>
<td>A-F only, 0 credit(s); prereq 0201;</td>
<td>STAFF</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
Instructor: Boisen, David J  
Description: This is the 0-credit lab option that is taken concurrently with MIL 1202 (2-credit lecture). Labs are normally on Saturdays, usually outdoors of doors, and also includes an FTX (field training exercise) at Camp Ripley in April of 3 to 4 days in length. Topics include infantry squad tactics, platoon movement, patrolling, land navigation, M16 qualification, and other military and leadership topics.

Style: 50% Laboratory, 50% Field Trips.

Grading: 20% attendance, 20% in-class participation, 20% class participation, 20% laboratory evaluation, 20% problem solving.

Grading based on attendance, and actual performance on tasks trained and evaluated during the labs in a HANDS-ON environment

MIL 304 Military Science III Leadership Lab 304  
A-F only, 0 credit(s); prereq 302;  
Instructor: Mayo, Sean Christopher

Description: Student may contact the instructor or department for information.

MIL 404 Military Science IV Leadership Lab 0404  
A-F only, 0 credit(s); prereq Concurrent registration is required (or allowed) in 3002;  
Instructor: Cooper, Curt Scott

Description: Student may contact the instructor or department for information.

MIL 1102 Leadership in Changing Environments  
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1104;  
Instructor: Leonard, Doug Richard

Description: Student may contact the instructor or department for information.

MIL 1104 Military Science I Leadership Lab  
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1102;  
Instructor: Leonard, Doug Richard

Description: Student may contact the instructor or department for information.

MIL 1202 Foundations of Tactical Leadership  
A-F only, 2 credit(s); prereq Concurrent registration is required (or allowed) in 1204;  
Instructor: Boisen, David J

Description: Examines the challenges of leading tactical teams in the complex contemporary operating environment. Highlights the dimensions of terrain analysis, patrolling, and operation orders. Further studies of the theoretical bases of the Army leadership framework explore the dynamics of adaptive leadership in the context of military operations. This course provides a transition to the junior year of ROTC, where cadets enter the advanced portion of the program. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills. Case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

Style: 50% Lecture, 5% Film/Video, 5% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Demonstration, 5% Guest Speakers, 10% Web Based.

Grading: 10% mid exam, 10% final exam, 20% reports/papers, 10% quizzes, 30% attendance, 10% reflection paper, 10% in-class presentation.

MIL 1204 Military Science II Leadership Lab  
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1202;  
Instructor: STAFF

Description: Student may contact the instructor or department for information.

MIL 3302 Leadership in Changing Environments  
A-F only, 3 credit(s); prereq Two years of ROTC or equiv established by U.S. Army;  
Instructor: Mayo, Sean Christopher

Description: Student may contact the instructor or department for information.

MIL 3304 MIL 3304 Military Science III Leadership Lab  
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3302;  
Instructor: Mayo, Sean Christopher

Description: Student may contact the instructor or department for information.

MIL 3402 Leadership in a Complex World  
A-F only, 3 credit(s); prereq All other military courses or Army equivs;  
Instructor: Cooper, Curt Scott

Description: Student may contact the instructor or department for information.

MIL 3404 Military Science IV Leadership Lab  
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3402;  
Instructor: Cooper, Curt Scott

Description: Student may contact the instructor or department for information.

MIL 3970 Directed Studies  
3 credit(s); prereq dept consent;  
Instructor: STAFF

Description: A writing intensive independent study course, evaluating the student’s research and analysis skills. This course is open to ROTC advanced course students only.

Grading: 100% reports/papers.

Modern Greek  
325 Social Sciences

MDGK 1002 Beginning Modern Greek II  
4 credit(s); prereq 1001 or instr consent;  
Instructor: Stavrou, Theofanis G

Description: Student may contact the instructor or department for information.

Molecular Cellular Developmental Biol and Genetics  
250 Biological Sciences

MCDG 6900 Student Research Seminar  
S-N only, 1 credit(s), max credits 10, 10 repeats allowed; prereq Grad MCDG or BMBB major dept consent;  
Instructor: Shaw, Jocelyn E

Description: Student may contact the instructor or department for information.

MCDG 8910 Journal Presentations  
S-N only, 1 credit(s), max credits 2; prereq Grad MCDG or BMBB major or dept consent;  
Instructor: Shaw, Jocelyn E

Description: Student may contact the instructor or department for information.

Mortuary Science
MORT 3014 Funeral Service Rules and Regulations  
A-F only, 2 credit(s); prereq Mortuary science major;  
Instructor: Mathews, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3016 Funeral Service Marketing and Merchandising  
A-F only, 3 credit(s); prereq Mortuary science major;  
Instructor: Christensen, Stephanie Lee  
Description: Student may contact the instructor or department for information.

MORT 3019 Funeral Practice II  
A-F only, 3 credit(s); prereq 3018, mortuary science major;  
Instructor: Mathews, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3021W Funeral Service Psychology  
A-F only, 3 credit(s); prereq Introductory course in general psychology; Meets CLE req of Writing Intensive;  
Instructor: Swarthout, David Brian  
Description: Student may contact the instructor or department for information.

MORT 3022W Funeral Service Counseling  
A-F only, 3 credit(s); prereq 3021W; Meets CLE req of Writing Intensive;  
Instructor: Swarthout, David Brian  
Description: Student may contact the instructor or department for information.

MORT 3030 Funeral Service Law  
A-F only, 2 credit(s); prereq 3025;  
Instructor: Meslow, Doug  
Description: Student may contact the instructor or department for information.

MORT 3035 Pathology  
A-F only, 3 credit(s); prereq Course in human anatomy/physiology;  
Instructor: Mathews, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3051 Restorative Art  
A-F only, 2 credit(s); prereq [3061 or Concurrent registration is required (or allowed) in 3061], mortuary science major;  
Instructor: LaCourt, Jody Lynn  
Description: Student may contact the instructor or department for information.

MORT 3061 Embalming Theory  
A-F only, 3 credit(s); prereq Mortuary science major;  
Instructor: LaCourt, Jody Lynn  
Description: Student may contact the instructor or department for information.

MORT 3065 Embalming Chemistry  
A-F only, 3 credit(s); prereq Intro course in general chemistry, registration in mortuary science;  
Instructor: Mathews, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3090 Independent Study Project  
1-15 credit(s), max credits 30; prereq Mortuary science major;  
Instructor: LuBrant, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3091W Independent Study in Funeral Service  
1-4 credit(s), max credits 4, 3 repeats allowed; prereq Mortuary science major; Meets CLE req of Writing Intensive;  
Instructor: LuBrant, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3151 Restorative Art Laboratory  
S-N only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3061, mortuary science major;  
Instructor: LaCourt, Jody Lynn  
Description: Student may contact the instructor or department for information.

MORT 3161 Embalming Laboratory  
S-N only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3061, mortuary science major;  
Instructor: LaCourt, Jody Lynn  
Description: Student may contact the instructor or department for information.

MORT 3379 Clinical Funeral Service Rotation  
S-N only, 3 credit(s), max credits 9, 3 repeats allowed; prereq Mortuary science major;  
Instructor: LuBrant, Michael P  
Description: Student may contact the instructor or department for information.

MORT 3380 Funeral Service Practicum  
S-N only, 8 credit(s); prereq Mortuary science major who has completed all other coursework;  
Instructor: LuBrant, Michael P  
Description: Student may contact the instructor or department for information.

MST 5012 Museum Practices  
A-F only, 3 credit(s); prereq 5011 or instr consent;  
Instructor: King, Lyndel Irene  
Description: Student may contact the instructor or department for information.

MST 5020 Internship  
S-N only, 1-4 credit(s), max credits 32, 32 repeats allowed; prereq 5011, 5012, dept consent;  
Instructor: King, Lyndel Irene  
Description: Student may contact the instructor or department for information.

MST 5020 Internship  
S-N only, 1-4 credit(s), max credits 32, 32 repeats allowed; prereq 5011, 5012, dept consent;  
Instructor: Murdock, Gordon Robert  
Description: The student arranges an internship experience which may be paid or unpaid at an established museum (institution which maintains and uses research collections in most cases). The project must involve the student in professional activity under the direct supervision of a museum professional. The project must be approved by the instructor before permission to enroll will be given. Proposal forms and guidelines are available from the instructor. Credit is proportional to the size of the task (hours/week or total hours).  
Style: internship experience  
Grading: 60% reports/papers, 40% other evaluation. evaluation of work supervisor
MUS 1001 Fundamentals of Music  
3 credit(s); prerequisite for non-music majors; meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: An introduction to the musical notation and structure of Western music. This course is intended for non-music majors and will cover the following topics: rhythm, pitch, meter, keyboard, major/minor scales, intervals, chords, and harmony. Course work is participatory and includes singing, playing instruments, clapping, and aural perception. Grades are determined from assignments, quizzes, a paper, and final exams. Class time includes two lectures and one lab per week. The syllabus is on the class web. (Note: this class includes four lab sections: 002, 003, 004, and 005.)  
Style: 66% Lecture, 33% Laboratory.  
Grading: 10% mid exam, 15% final exam, 10% reports/papers, 20% quizzes, 20% laboratory evaluation, 25% problem solving.  
Exam Format: Multiple choice and written answer; written and aural examination.

MUS 1013 Rock I: The Historical Origins and Development of Rock Music to 1970  
A-F only, 3 credit(s); meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;  
Instructor: Lubet, Alex J  
Description: For non-majors (no prior knowledge of music required or assumed). This course takes up the history of rock around 1970, toward the end of what many consider its Golden Age. From the emergence of “progressive” rock in the early 1970s, we will trace the course of rock and related styles to the present day, considering punk, new wave, heavy metal, hip-hop, alternative, grunge, and a range of repetitive, technology-driven styles (house, techno, etc.). Most of our attention will be focused on how rock functions as a musical style, and how the structure and language of its music interact with what it appears to be trying to say. But we will consider, as well, the uses to which rock and related styles have been put through this period, how they have contributed to ideas of youth culture, race identity, gender identity, and other social formations. The music of the course is considered within its broader cultural context, as well, and you should come prepared to watch movies, read a couple of short novels, dissect music videos, and surf the Web.  
Style: 60% Lecture, 40% Discussion.  
Grading: 20% mid exam, 30% final exam, 40% reports/papers, 10% class participation.  
Exam Format: Short-answer questions and brief essays.

MUS 1014 Rock II: Rock Music from 1970 to the Present  
3 credit(s); meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;  
Instructor: Mercer-Taylor, Peter J  
Description: For non-majors (no prior knowledge of music required or assumed). This course takes up the history of rock around 1970, toward the end of what many consider its Golden Age. From the emergence of “progressive” rock in the early 1970s, we will trace the course of rock and related styles to the present day, considering punk, new wave, heavy metal, hip-hop, alternative, grunge, and a range of repetitive, technology-driven styles (house, techno, etc.). Most of our attention will be focused on how rock functions as a musical style, and how the structure and language of its music interact with what it appears to be trying to say. But we will consider, as well, the uses to which rock and related styles have been put through this period, how they have contributed to ideas of youth culture, race identity, gender identity, and other social formations. The music of the course is considered within its broader cultural context, as well, and you should come prepared to watch movies, read a couple of short novels, dissect music videos, and surf the Web.  
Style: 60% Lecture, 40% Discussion.  
Grading: 20% mid exam, 30% final exam, 40% reports/papers, 10% class participation.  
Exam Format: Short-answer questions and brief essays.

MUS 1015 Music and Movies: The Use and Representation of Music and Musicians in Film in a Global Context  
A-F only, 4 credit(s); meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;  
Instructor: Lubet, Alex J  
Description: Student may contact the instructor or department for information.

MUS 1021 Introduction to Music  
3 credit(s); credit will not be granted if credit has been received for: MUS 3021; meets CLE req of Other Humanities Core;  
Instructor: Mercer-Taylor, Peter J  
Description: This course is intended as an introduction to the process of serious, significant musical listening. Through the historical styles, forms, and cultural foundations of European classical music we will form the core of our subject matter and it is exclusively on this material that you will be graded—we will stray repeatedly into popular music traditions in the course of our explorations.  
Style: 85% Lecture, 15% Discussion.  
Grading: 50% mid exam, 40% final exam, 10% other evaluation.  
Exam Format: Identification and short-answer questions.

MUS 1051 Class Piano for Nonmusic Majors I  
1 credit(s); meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: Mus 1051, Class Piano for Non-Music Majors. A beginning course for non-music majors with little or no keyboard background. Emphasis on basis functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: “Contemporary Class Piano” 6th ed. by Elyse Mach. Mus 1051 covers Units 1-2, including intervals up to a fifth, major scales and key signatures, major and minor 5-finger patterns and triads, and accompaniments using I, IV and V7 chords.  
Style: 10% Lecture, 90% Laboratory.  
Grading: 20% mid exam, 25% final exam, 40% quizzes, 10% class participation, 5% other evaluation. two written projects  
Exam Format: Individual keyboard performance (plus some written theory).

MUS 1052 Class Piano for Non Music Majors II  
2 credit(s); meets CLE req of Other Humanities Core;  
Instructor: STAFF  
Description: Continuation of Mus 1051. Emphasis on basic functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: Contemporary Class Piano, 6th edition, by Elyse Mach. 1052 covers Units 3-5, including major and minor scales, intervals up to an octave; accompaniment styles; ABA form; syncopation; secondary chords; pedalling; other scale forms; harmonizing with i, iv, and V7 in minor; jazz styles; 2-hand accompaniments; and major and minor 7th chords.  
Style: 10% Lecture, 90% Laboratory.  
Grading: 20% mid exam, 25% final exam, 5% special projects, 40% quizzes, 10% class participation.  
Exam Format: Individual keyboard performance (plus some written theory).

MUS 1152 Piano: Class Lessons II  
A-F only, 2 credit(s); prerequisite instructor consent;  
Instructor: STAFF  
Description: Continuation of MUS 1151, a beginning course for freshman music majors or minors with limited keyboard background. Co-requisite for freshman music theory. Taught by graduate assistants in an electronic piano lab. Emphasis is on functional skills, such as reading, transposing, harmonizing, improvising, and playing by ear, along with keyboard theory, technique, and repertoire. Includes lecture, group and individual performance, and some individual instruction. Text: Keyboard Musician by Lyke. 1152 covers chapters 5-8. Students with previous piano background should contact the School of Music for information regarding placement or credit by exam.  
Style: 10% Lecture, 90% Laboratory.  
Grading: 25% mid exam, 25% final exam, 5% special projects, 40% quizzes, 10% class participation.  
Exam Format: Individual keyboard performance (plus some written theory).

MUS 1471 Guitar: Class Lessons I  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Fundamentals for the beginning guitarist; progressive development of skills. Beginning finger-style technique. Introductory sight-reading skills. Emphasis on performance, practice methods, posture, and sound production. Students must furnish an acoustic guitar, preferably a nylon-string guitar.  
Style: 40% Lecture. in-class performance
MUS 1472 Guitar: Class Lessons II
A-F only, 2 credit(s); prereq 1471 or instr consent;
Instructor: Mendoza-Santiago, Eduardo
Description: Student may contact the instructor or department for information.

MUS 1502 Theory and Analysis of Tonal Music II
A-F only, 2 credit(s); prereq [[1501, 1511] with grade of at least C-] or diagnostic test administered by School of Music;
Instructor: Gopinath, Sumanth S
Description: Student may contact the instructor or department for information.

MUS 1512 Ear-Training and Sight-Singing II
A-F only, 1 credit(s); prereq [[1501, 1511] with grade of at least C- or diagnostic exam administered by School of Music], [music major or instr consent ];
Instructor: Orosz, Jeremy W
Description: Student may contact the instructor or department for information.

MUS 1512 Ear-Training and Sight-Singing II
A-F only, 1 credit(s); prereq [[1501, 1511] with grade of at least C- or diagnostic exam administered by School of Music], [music major or instr consent ];
Instructor: Gopinath, Sumanth S
Description: Student may contact the instructor or department for information.

MUS 1804 World Music
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: If you love music, this is the course for you. The only prerequisite is curiosity. Whether you have musical training or not, music is an integral part of your life. You are not only surrounded by it, but you use it to define who you are and what you value in life. This is a great opportunity for non-music majors to get introduced to music from a world music perspective. Explore this exciting world and gain a crosscultural understanding of basic musical elements (rhythm, harmony, melody, texture, and timbre). You will be taken on a musical tour around the globe, focusing on a small number of representative cultures. Our goal is to understand how each representative musical case study fits into a larger cultural, social, and political context. What does it mean to be a musician? How do people conceptualize music? How does music relate to a culture's daily life and understanding of the universe? These are some of the questions we will be addressing. This course will broaden your horizons and sharpen your critical thinking. You will also have some hands-on musical experiences (you will not be evaluated on the basis of your musical ability). Using musical case studies from around the world, we will explore differences in aesthetics that stem from different lifestyles and values. The course objectives will be accomplished through lectures, video viewing, lots of listening, some hands-on musical experience, selected readings, and assigned concert attendance.

MUS 3021 Introduction to Music
3 credit(s); Credit will not be granted if credit has been received for: MUS 1021; Meets CLE req of Other Humanities Core;
Instructor: Mercer-Taylor, Peter J
Description: This course is intended as an introduction to the process of serious musical listening. Though the styles, forms, and cultural foundations of European classical music will form the core of our subject matter-and it is exclusively on this material that you will be graded-we will stray repeatedly into popular music traditions in the course of our explorations.
Style: 85% Lecture, 15% Discussion.
Grading: 42% mid exam, 32% final exam, 16% reports/papers, 10% other evaluation. attendance
Exam Format: Identification and short-answer questions

MUS 3045 The Avant-Garde
A-F only, 3 credit(s);
Instructor: Lubet, Alex J
Description: Student may contact the instructor or department for information.

MUS 3230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prereq Choral and/or instrumental music background, audition, instr consent;
Instructor: Culloton, Matthew Richard
Description: Student may contact the instructor or department for information.

MUS 3230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prereq Choral and/or instrumental music background, audition, instr consent;
Instructor: Crow, Andrew Russell
Description: Student may contact the instructor or department for information.

MUS 3261 Italian Diction for Singers
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Voice or choral music major, concurrent enrollment in applied voice;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MUS 3264 French Diction for Singers
A-F only, 1 credit(s); prereq Voice or choral music major, concurrent enroll in applied voice;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MUS 3340 Jazz Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Audition, instr consent;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MUS 3340 Jazz Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Audition, instr consent;
Instructor: Sorenson, Dean Patrick
Description: The University Jazz Ensembles play a wide variety of big band repertoire and perform for many events, both on and off campus. Entrance is limited to instruments that are traditionally a part of the big band: trumpet, trombone, saxophone, piano, guitar, bass, drums, and percussion. Placement is by audition, and registration is not permitted until after an audition has taken place.
Style: Rehearsal/performance

MUS 3340 Jazz Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Audition, instr consent;
Instructor: Wiberg, Christopher R
Description: Student may contact the instructor or department for information.

MUS 3350 Jazz Combo
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Audition, instr consent;
Instructor: STAFF
Description: Jazz combos study a wide range of small group jazz literature. Time is also spent on improvisation and performance practice concepts. Performances are scheduled each semester. Ensembles are open to music majors and non-music majors, and auditions are required. Students are placed according to their ability and experience.

Style: performance/rehearsal

MUS 3380 Gospel Choir
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
Instructor: Moora Sanford Lajuan
Description: Student may contact the instructor or department for information.

MUS 3400 University and Campus Bands
2 credit(s), max credits 20, 10 repeats allowed;
Instructor: Miller, Heidi Johanna
Description: Student may contact the instructor or department for information.

MUS 3400 University and Campus Bands
2 credit(s), max credits 20, 10 repeats allowed;
Instructor: Nolan, Shanti Catherine
Description: Student may contact the instructor or department for information.

MUS 3401 Basic Conducting
A-F only, 2 credit(s); prereq 1502, music major;
Instructor: Diem, Timothy W
Description: Student may contact the instructor or department for information.

MUS 3410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 repeats allowed;
prereq Audition, instr consent;
Instructor: Diem, Timothy W
Description: Student may contact the instructor or department for information.

MUS 3410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 repeats allowed;
prereq Audition, instr consent;
Instructor: Luckhardt, Jerry M
Description: A music ensemble of select wind and percussion players. The ensemble includes a number of undergraduate and graduate majors from other disciplines. Symphonic band performs 4 to 5 concerts each academic year. Admission is by audition only.
Style: rehearsal
Grading: rehearsal preparation and performance

MUS 3420 Orchestra
A-F only, 1 credit(s), max credits 8, 8 repeats allowed;
prereq Audition, instr consent;
Instructor: Smith, Mark Russell
Description: Student may contact the instructor or department for information.

MUS 3430 Campus Orchestra
2 credit(s), max credits 16, 8 repeats allowed; prereq Non-music major or unable to register for University Orchestra;
Instructor: Beyers, Foster J
Description: Student may contact the instructor or department for information.

MUS 3440 Chamber Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed;
prereq instr consent;
Instructor: STAFF
Description:
Grading: performances

MUS 3490 Athletics Bands
A-F only, 1 credit(s), max credits 16, 16 repeats allowed;
prereq instr consent;
Instructor: Diem, Timothy W
Description: A continuation of the course from the Fall Semester. Three Athletic Pep bands, which play for men's hockey and basketball and women's volleyball, basketball and hockey, begin in September. Each band will perform 25 - 30 times throughout the year including regular season and post season events. Auditions are held in early September for formation of the three groups. Year-long participation is required.

MUS 3502 Theory and Analysis of Tonal Music IV
A-F only, 2 credit(s); prereq [3501, 3511] with grade of at least C- or diagnostic test administered by School of Music;
Instructor: Damschroder, David A
Description: The fourth semester of a four-semester sequence of courses devoted to tonal music theory. The focus of these courses is on analysis of music of the eighteenth and nineteenth centuries, part-writing (learning how to write music in historical styles), and skills including: sight-singing, ear-training, and keyboard performance. Music 3502 is intended primarily for undergraduate music majors. It may also be elected by graduate music majors to remedy deficiencies (though the course does NOT offer graduate credit).
Style: 25% Lecture, 50% Discussion, 25% Laboratory.
Grading: 30% mid exam, 30% final exam, 15% quizzes, 10% problem solving, 15% other evaluation. auditions
Exam Format: essay

MUS 3512 Ear-Training and Sight-Singing IV
A-F only, 1 credit(s); prereq [3501, 3511] with grade of at least C- or diagnostic exam administered by School of Music; [music major or instr consent ];
Instructor: Damschroder, David A
Description: Student may contact the instructor or department for information.

MUS 3601W History of Western Music I
A-F only, 3 credit(s); prereq dept consent; Meets CLE req of Writing Intensive;
Instructor: Harness, Kelley A
Description: This is the first course in the undergraduate music history sequence. We will study music composed over a very broad time span, ca. 800 to 1700, looking at the works' musical structures within the larger contexts of musical style, social/political significance, and broad aesthetic and philosophical movements. Because this is a writing intensive (WI) course, both formal and informal writing assignments will constitute a significant percentage (one-third) of the grade. In addition to essay questions on exams, students will complete three short assignments which deal with writing issues (e.g., how and when to create footnotes and bibliographies) and two longer papers. The first of the longer papers will deal with issues of performance in early music, while the second will involve analysis of an individual work. Students are required to purchase the following textbooks: Grout, Donald Jay and Palisca, Claude V. . A History of Music. 5th ed. New York: W. W. Norton, 1996 [this book will be used for the entire three semester sequence]; Palisca, Claude V., ed. Norton Anthology of Western Music and accompanying recordings. 3rd ed. 2 vols. New York: W. W. Norton, 1996. The course is intended primarily for undergraduate music majors; other undergraduate students may enroll with the instructor's permission.
Style: 75% Lecture, 25% Discussion.
Graduation: 33% mid exam, 17% final exam, 33% reports/papers, 17% quizzes.

Exam Format: Listening ID, short answer, essay

MUS 3603W History of Western Music III
A-F only, 3 credit(s); prereq [3501 3511, 3602] with a grade of at least C-, music major or instr consent; Meets CLE req of Writing Intensive;
Instructor: Grayson,David Alan
Description: Student may contact the instructor or department for information.

MUS 4504 Intensive Theory and Analysis of 20th-Century Music
A-F only, 2 credit(s); prereq [3502, 3512] or instr consent;
Instructor: Lubet,Alan J
Description: Student may contact the instructor or department for information.

MUS 4514 Ear-Training and Sight-Singing for 20th-Century Music
A-F only, 1 credit(s); prereq Completion of [3502, 3512] with grade of at least C-
Instructor: Lubet,Alan J
Description: Student may contact the instructor or department for information.

MUS 5102 Piano Pedagogy II
2 credit(s); prereq B cr in MusA 1301 or MusA 1401 or instr consent;
Instructor: Shockley,Rebecca P
Description: Continuation of Mus 5101 Piano Pedagogy I. Demonstration and discussion of teaching techniques, methods, and materials for group and individual instruction. Emphasis on the intermediate to advanced levels. Includes observation, reading, discussion, class presentations, and hands-on experience. Text: The Well-Tempered Keyboard Teacher, 2nd ed., by Uszler et al., plus supplementary course packet. Intended for piano majors or for pianists with prior piano teaching experience. Prereq two years of college-level applied piano instruction or #. Open to non-degree students through Extension.
Style: 25% Lecture, 25% Discussion, 25% Laboratory. student oral reports
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% in-class presentation, 20% class participation.
Exam Format: essay

MUS 5150 Body Awareness in Activity: The Alexander Technique for Musicians
2 credit(s), max credits 4;
Instructor: McCullough,Brian
Description: The Alexander Technique is a century-old technique used by musicians and others as a means of solving performance problems. Its principles address how the daily habits in the use of the self (such as sitting, standing and walking) affect seemingly disparate problems such as stage fright, muscular-skeletal pain, playing induced injuries, and computer use injuries. For musicians, the interplay of unconscious habits and the body mechanics of daily use of the self strongly affect tone production and technique. The Alexander Technique provides tools to enhance fundamental coordination. Its application can lead to greater performance ease and a reduction of chronic aches and pains. Class enrollment is limited and the class will include individual &quot;hands-on&quot; mini-lessons each week. The texts used are: 'Use of the Self,' by F. M. Alexander; 'Indirect Procedures--A Musician's Guide to the Alexander Technique,' by Pedro de Alcantara; and 'Body Learning' by Michael Gelb. Class discussions will center on assigned readings and each student will be responsible for three short papers on selected portions of the texts. Open to musicians and non-musicians. For more info: www.MN-AlexanderTechnique.com. If class is full, email the instructor at: mcul045@umn.edu for permission to add.
Style: 10% Lecture, 25% Discussion, 25% Laboratory. individual work with students
Grading: 50% class participation, 50% other evaluation.

MUS 5182 Advanced Piano Literature II
A-F only, 2 credit(s); prereq grad piano major or instr consent;
Instructor: Shaw,Paul Magnus
Description: Student may contact the instructor or department for information.

MUS 5230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prereq Choral and/or instrumental music background; audition, instr consent;
Instructor: Culloton,Matthew Richard
Description: Student may contact the instructor or department for information.

MUS 5230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prereq Choral and/or instrumental music background; audition, instr consent;
Instructor: Crow,Andrew Russel
Description: Student may contact the instructor or department for information.

MUS 5240 University Singers
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq Audition, instr consent;
Instructor: Romney,Kathy Saltzman
Description: Student may contact the instructor or department for information.

MUS 5250 Opera Workshop and Ensemble
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq audition, instr consent;
Instructor: Kenning,Kristin
Description: Student may contact the instructor or department for information.

MUS 5250 Opera Workshop and Ensemble
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq audition, instr consent;
Instructor: Walsh,David Allan
Description: The Opera Workshop is designed to provide performance-oriented opera and music theatre singers with theoretical and practical instruction in opera stagecraft. The course will combine theatre games and exercises, improvisations, script readings, plus rehearsal of selected opera and music theatre repertoire appropriate to the skill development of the individual student. The 'non-production' nature of this course means that the student has the possibility of exploring and 'trying things out'. This class will be determined on the basis of audition and will be restricted to juniors and seniors in the undergraduate programme.
Style: 20% Discussion. Practical instruction in stagecraft
Grading: 20% in-class presentation, 80% class participation.
Exam Format: There are no formal exams. The in-class participation and the presentation of improvs, script readings and scene studies will be the basis for grading the students accomplishments and progress.

MUS 5272 Diction for Singers II
A-F only, 2 credit(s); prereq 12 cr MusA 1304 or grad music major or instr consent;
Instructor: Maurice,Glenda A
Description: Student may contact the instructor or department for information.

MUS 5276 Vocal Pedagogy II
A-F only, 3 credit(s); prereq Sr vocal major or instr consent;
Instructor: Del Santo,Jean Marie
Description: Student may contact the instructor or department for information.

MUS 5280 Opera Theatre

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq audition, instr consent; 
Instructor: Walsh, David Allan 
Description: The Opera Theatre programme is designed to provide performance-oriented opera and music theatre singers with theoretical and practical instruction in opera stagecraft, as well as genuine operatic performance experience. Two fully-staged productions per school year, with all the relevant staging demands, offer the student performer an opportunity to showcase her/his talent in a public presentation. Opera Theatre classes will be determined on the basis of audition. 
Style: 20% Discussion. Direct practical staging instruction 
Grading: 100% other evaluation. Staging and musical work 
Exam Format: Performances of the opera production each semester

MUS 5340 Jazz Ensemble 
A-F only, 1 credit(s), max credits 6, 6 repeats allowed; 
prereq audition, instr consent; 
Instructor: Hey, Philip C 
Description: Student may contact the instructor or department for information.

MUS 5340 Jazz Ensemble 
A-F only, 1 credit(s), max credits 6, 6 repeats allowed; 
prereq audition, instr consent; 
Instructor: Sorensen, Dean Patrick 
Description: The University Jazz Ensembles play a wide variety of big band repertoire and perform for many events, both on and off campus. Entrance is limited to instruments that are traditionally a part of the big band: trumpet, trombone, saxophone, piano, guitar, bass, drums, and percussion. Placement is by audition, and registration is not permitted until after an audition has taken place. 
Style: Rehearsal/performance

MUS 5340 Jazz Ensemble 
A-F only, 1 credit(s), max credits 6, 6 repeats allowed; 
prereq audition, instr consent; 
Instructor: Wiberg, Christopher R 
Description: Student may contact the instructor or department for information.

MUS 5380 Gospel Choir 
A-F only, 1 credit(s), max credits 4, 4 repeats allowed; 
Instructor: Moore, Sanford Lajuan 
Description: Student may contact the instructor or department for information.

MUS 5410 University Wind Bands 
A-F only, 1 credit(s), max credits 14, 14 repeats allowed; 
prereq audition, instr consent; 
Instructor: Diem, Timothy W 
Description: Student may contact the instructor or department for information.

MUS 5410 University Wind Bands 
A-F only, 1 credit(s), max credits 14, 14 repeats allowed; 
prereq audition, instr consent; 
Instructor: Luckhardt, Jerry M 
Description: A music ensemble of select wind and percussion players. The ensemble includes a number of undergraduate and graduate majors from other disciplines. Symphonic band performs 4 to 5 concerts each academic year. Admission is by audition only. 
Style: rehearsal 
Grading: rehearsal preparation and performance

MUS 5420 Orchestra 
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; 
prereq audition, instr consent; 
Instructor: Smith, Mark Russell 
Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble 
A-F only, 1 credit(s); prereq 5421 or instr consent; 
Instructor: Bjork, Mark P 
Description: Student may contact the instructor or department for information.

MUS 5427 Violin Pedagogy I 
A-F only, 2 credit(s); prereq Violin or viola major or instr consent; 
Instructor: O'Reilly, Sally P 
Description: Student may contact the instructor or department for information.

MUS 5440 Chamber Ensemble 
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; 
prereq audition, instr consent; 
Instructor: STAFF 
Description: 
Grading: performance

MUS 5450 Orchestral Repertoire 
A-F only, 1-3 credit(s), max credits 9, 3 repeats allowed; 
prereq instr consent; 
Instructor: Bogorad, Julia A 
Description: Student may contact the instructor or department for information.

MUS 5464 Cello Pedagogy 
A-F only, 2 credit(s); 
Instructor: Remenikova, Tanya 
Description: Student may contact the instructor or department for information.

MUS 5480 University Brass Choir 
1 credit(s), max credits 8, 8 repeats allowed; prereq audition, instr consent; 
Instructor: Baldwin, David B 
Description: Student may contact the instructor or department for information.

MUS 5481 Trumpet Pedagogy 
2 credit(s); prereq Sr or grad in music or instr consent; 
Instructor: STAFF 
Description: This course is intended for senior undergraduates and graduate students in trumpet performance or music education. It is a survey of various aspects of trumpet teaching: history, literature, performers, related instruments, recordings, text materials, and techniques. The class includes ten short (one or two-page) papers, discussion, and performance.

MUS 5490 Percussion Ensemble 
A-F only, 1 credit(s), max credits 10, 10 repeats allowed; 
prereq instr consent; 
Instructor: Mensah, Sowah 
Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble 
A-F only, 1 credit(s), max credits 10, 10 repeats allowed; 
prereq instr consent; 
Instructor: Meza, Fernando A. 
Description: Practice and performance of standard and contemporary compositions for percussion instruments in various combinations. 
Style: 20% Lecture, 80% Laboratory. 
Grading: 40% in-class presentation, 60% laboratory evaluation. 
Exam Format: no exams

MUS 5490 Percussion Ensemble 
A-F only, 1 credit(s), max credits 10, 10 repeats allowed; 
prereq instr consent; 
Instructor: Rappel, Adam A 
Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble 
A-F only, 1 credit(s), max credits 10, 10 repeats allowed; 
prereq instr consent; 
Instructor: Walsh, David Allan 
Description: Student may contact the instructor or department for information.
MUS 5624 Music of J. S. Bach
A-F only, 3 credits (s); prereq music instr consent; Instructor: Harness, Kelley A
Description: Student may contact the instructor for information.

MUS 5647 20th-Century European/American Music
3 credits (s); prereq 3603 or equiv, 5501 or equiv, 12 undergraded cr in music history; Instructor: Painter PhD, Karen
Description: Student may contact the instructor for information.

MUS 5950 Topics in Music
3 credits (s), max credits 15, 15 repeats allowed; Instructor: Birnitzer-Stull, Matt
Description: Though the focus of this course will be Wagner's monumental Ring music drama, the nature of our study will be interdisciplinary. We will explore social criticism, German medieval poetry, Norse mythology, music biography, Jungian psychology, visual arts, twentieth-century fantasy literature, nineteenth-century German philosophy, theater, and music analysis in an effort to better understand the multi-faceted nature of Wagner's Gesamtkunstwerk and the many ways it has affected western culture over the past 125 years. Readings, art collections, video recordings, and music recordings will enable us to engage Wagner's Ring from a number of different angles, culminating, by semester's end, in a thorough knowledge of Der Ring which spans the boundaries of many fields of inquiry.

MUS 5950 Topics in Music: Advanced Indian Music - A Panorama
3 credits (s), max credits 15, 15 repeats allowed; Instructor: Goswami, Pooja
Description: Continuing from ?Introduction to North Indian Vocal Music? (offered as MUS 5950 005 in Fall 2008), learn advanced vocal training in North Indian music. Gain a panoramic view of Indian music, its meaning and place and a greater understanding of the diversity and possibilities of human expression. Learn advanced voice culture and compositions in Hindustani music through hands on vocal lessons and exercises, audio/video material, concert experience, classroom discussions and writing assignments. This is a fascinating course and a unique opportunity for anyone interested in music, aesthetics or Indian culture. In this course, you will also explore some of the many varieties of music in today's India and discuss the cultural, social and historical processes that contribute to this musical diversity. In this process we will direct our attention to dialogues of music and meaning within and beyond India. The course will begin with an overview of the main elements of Indian Music and then discuss how these elements are used in North Indian Classical Music, Popular Music and Folk Music, ending with a discussion of music's role in Indian culture and society, with emphasis on social organization, gender and religion. This course will provide the student a panoramic overview of the various genres, instruments, styles and trends in Indian music, with historical and cultural context of India. A number of guest lectures and demonstrations will be spread throughout the course (see syllabus), delivered by experts in their respective fields. The course is designed to: ? Broaden your musical and cultural horizons. ? Gain a greater appreciation and understanding of various genres and instruments of Indian music. ? Develop the ability to sing and compose basic Hindustani vocal music.
Style: 20% Lecture, 15% Discussion, 50% Small Group Activities, 15% Guest Speakers. Small Group Activities mainly consist of singing (vocal lessons) in class. Grading: 30% final exam, 30% reports/papers, 15% quizzes, 15% class participation, 10% other evaluation. Final exam consists of singing demonstrations only. 25% reports consist of one concert report (10%) plus one written term paper (20%). Other evaluation consists of class attendance. Exam Format: Quizzes will contain multiple choice and short answer question. Final exam will consist of singing demonstrations only.

MUS 5950 Topics in Music: Music and Religious Experience in Contemp World
3 credits (s), max credits 15, 15 repeats allowed; Instructor: Schulitz, Anna Christine
Description: This course explores the central role of music in the performance and experience of religion, positioning music not as an adjunct to silent rituals and liturgy, but as the catalyst and carrier of religious experience, indeed as religious experience itself. Music can render spaces sacred, induce trance and possession, serve as sacred language, and unify communities of worshippers. As we listen to diverse religious musics and read works by ethnomusicologists, historical musicologists, anthropologists, and scholars of religion, some of the questions we will discuss include: What musical properties engender ecstatic experience? How do religious communities organize themselves? In what ways do devotional experiences linger outside of ritual contexts? How is religious music changing and how does it intersect with issues of politics and identity? How have scholars conceptualized the role of sound in worship? Following a brief review of key concepts in religious studies and the anthropology of religion, we will interrogate music at the intersections of ?world religion? and ?indigenous religion? (while questioning neat distinctions between the two). We will then address issues of particular interest to ethno/musicologists of religion, including trance, shamanism, identity, and hynmody, grounding our theoretical discussions in article-length case studies. In the final unit of the course, we will read book-length ethnographies on the music of Appalachian Baptist churches, South Asian Sufi music, funerary music of West Africa, and Afro-Cuban music for spirit trance.

MUS 5950 Topics in Music: Free Jazz--From Structure to Gesture
3 credits (s), max credits 15, 15 repeats allowed; Instructor: Mazzola PhD, Guerino
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Contemporary Music Workshop
1 credit (s), max credits 15, 15 repeats allowed; Instructor: Kawai, Noriko
Description: Student may contact the instructor or department for information.

MUS 8133 Seminar in Basso Continuo
A-F only, 3 credits (s); prereq Grad student in Music or instr consent; Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUS 8171 Song Repertoire and Performance for Pianists and Singers: German Lieder
A-F only, 2 credits (s); prereq [Grad student in vocal performance or in accompanying or in piano], instr consent; Instructor: Kierig, Barbara G
Description: Student may contact the instructor or department for information.

MUS 8255 Choral Literature: Baroque Era to the Present
A-F only, 3 credits (s); prereq instr consent; Instructor: Mehaffey, Matthew Wayne
Description: Student may contact the instructor or department for information.

MUS 8299 Performance in Choral Conducting
A-F only, 3 credits (s); prereq instr consent; Instructor: Romey, Kathy Saltzman
Description: This course explores the central role of music in the performance and experience of religion, positioning music not as an adjunct to silent rituals and liturgy, but as the catalyst and carrier of religious experience, indeed as religious experience itself. Music can render spaces sacred, induce trance and possession, serve as sacred language, and unify communities of worshippers. As we listen to diverse religious musics and read works by ethnomusicologists, historical musicologists, anthropologists, and scholars of religion, some of the questions we will discuss include: What musical properties engender ecstatic experience? How do religious communities organize themselves? In what ways do devotional experiences linger outside of ritual contexts? How is religious music changing and how does it intersect with issues of politics and identity? How have scholars conceptualized the role of sound in worship? Following a brief review of key concepts in religious studies and the anthropology of religion, we will interrogate music at the intersections of ?world religion? and ?indigenous religion? (while questioning neat distinctions between the two). We will then address issues of particular interest to ethno/musicologists of religion, including trance, shamanism, identity, and hynmody, grounding our theoretical discussions in article-length case studies. In the final unit of the course, we will read book-length ethnographies on the music of Appalachian Baptist churches, South Asian Sufi music, funerary music of West Africa, and Afro-Cuban music for spirit trance.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**MUS 8450 Graduate Seminar in Conducting**  
A-F only, 3-4 credit(s), max credits 32, 8 repeats allowed;  
prereq Grad student in conducting or instr consent;  
**Instructor:** Luckhardt, Jerry M  
**Description:** Student may contact the instructor or department for information.

**MUS 8540 Graduate Seminar in Conducting**  
A-F only, 3-4 credit(s), max credits 32, 8 repeats allowed;  
prereq Grad student in conducting or instr consent;  
**Instructor:** Smith, Mark Russell  
**Description:** Student may contact the instructor or department for information.

**MUS 8479 Performance and Document: Wind Ensemble/Band Conducting**  
A-F only, 2 credit(s); prereq 8472, instr consent;  
**Instructor:** Kirchhoff, Craig J  
**Description:** Student may contact the instructor or department for information.

**MUS 8550 Composition**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq instr consent;  
**Instructor:** Luber, Alex J  
**Description:** Student may contact the instructor or department for information.

**MUS 8550 Composition**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq instr consent;  
**Instructor:** Geers, Doug  
**Description:** Student may contact the instructor or department for information.

**MUS 8550 Composition**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq instr consent;  
**Instructor:** Dillon, James  
**Description:** Student may contact the instructor or department for information.

**MUS 8580 Topics in Tonal Analysis**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq instr consent;  
**Instructor:** Bribitzer-Stull, Matt  
**Description:** This course is designed to serve our M.A. and Ph.D.-level scholars as the core of instruction in the analysis of 19th-century western art music. During the course, students will establish both a familiarity with the current state of research in the field and a knowledge of the issues central to understanding the structure and meaning of romantic-era music. (Said issues include, but are not limited to: tonality and tonal structure, form, chromatic harmony, thematic/motivic development, extra-musical association, and musical meaning.). Additionally, students will develop a working knowledge of various analytic methodologies, including the ramifications and contradictions inherent in combining two or more in approaching a single work. Weekly reading and analysis assignments will serve as the basic materials for class discussion and presentations. Two longer analytic term papers will allow students to apply their analytic skills freely to the music(s) of their choice.

**MUS 8582 Schenkerian Theory and Analysis II**  
A-F only, 3 credit(s); prereq 8581 or instr consent;  
**Instructor:** Damschroder, David A  
**Description:** Student may contact the instructor or department for information.

**MUS 8590 Topics in 20th-Century Analysis**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq Grad music major, instr consent;  
**Instructor:** Cherlin, Michael  
**Description:** Student may contact the instructor or department for information.

**MUS 8590 Topics in 20th-Century Analysis: The Mathematical Design of Future Music**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq Grad music major, instr consent;  
**Instructor:** Mazzola, Guerino  
**Description:** Student may contact the instructor or department for information.

**MUS 8640 Seminar in Musicology**  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
prereq Musicology or theory emphasis or instr consent;  
**Instructor:** Linch Currie, Gabriela  
**Description:** Student may contact the instructor or department for information.

**MUS 8864 Current Issues in Ethnomusicology**  
A-F only, 3 credit(s); prereq instr consent;  
**Instructor:** Schultz, Anna Christine  
**Description:** This course provides a graduate-level introduction to theories and methods of ethnomusicology; we will both theorize about practice and practice theories. The practical component of this course includes transcription and analysis, as well as a fieldwork project that culminates in a written paper and a conference-style class presentation. Theoretical issues will be traced through the entire history of the discipline, though emphasis will be placed on current debates and issues. We will pay particular attention to issues of music and: social structure, culture, semiotics, metaphor, comparison, fieldwork, transcription and analysis, representation, gender, ethnicity, and transnationalism.  
**Style:** 20% Lecture, 40% Discussion, 40% Student Presentation.  
**Grading:** 35% reports/papers, 20% written homework, 25% in-class presentation, 20% class participation.

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**Music Applied**  
100 Ferguson Hall

**MUSA 1101 Piano: Elective**  
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;  
prereq dept consent;  
**Instructor:** STAFF  
**Description:** Individual piano instruction by graduate piano TAs for non-music majors with prior piano study. Weekly half-hour lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Requires permission by the Class Piano Coordinator or a piano TA. Information on applied music fees and how to obtain permission to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, (612) 624-5740, or at http://www.music.umn.edu/degrees/nds.htm  
**Style:** Individual lessons  
**Grading:** 40% final exam, 60% other evaluation. weekly lesson preparation  
**Exam Format:** individual keyboard performance (jury)

**MUSA 1102 Harpsichord: Elective**  
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;  
prereq dept consent;  
**Instructor:** Bilmeyer, Dean W  
**Description:** Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 1103</td>
<td>Organ: Elective</td>
<td>Petersen, Leif H</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<tr>
<td>MUSA 1104</td>
<td>Voice: Elective</td>
<td>Moiseeva, Natalia</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<tr>
<td>MUSA 1105</td>
<td>Violin: Elective</td>
<td>Bjork, Mark P</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite Departmental Consent Required.</td>
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<tr>
<td>MUSA 1106</td>
<td>Viola: Elective</td>
<td>Haas, James Ray</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<tr>
<td>MUSA 1107</td>
<td>Cello: Elective</td>
<td>Alvarez, Ramiro R</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<td>MUSA 1108</td>
<td>Double Bass: Elective</td>
<td>Rogalski, Michal</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<td>MUSA 1109</td>
<td>Flute: Elective</td>
<td>Taylor, Rachel Mary</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<td>MUSA 1110</td>
<td>Oboe: Elective</td>
<td>Friberg, Daniel Seth</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<tr>
<td>MUSA 1111</td>
<td>Clarinet: Elective</td>
<td>Wright, Scott Wayne</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<td>MUSA 1112</td>
<td>Saxophone: Elective</td>
<td>Kern, Stacy J</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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<tr>
<td>MUSA 1113</td>
<td>French Horn: Elective</td>
<td>Petersen, Leif H</td>
<td>A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite department consent.</td>
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MUSA 1116 Trumpet: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Wedekind, Todd Allen
Description: Student may contact the instructor or department 
for information.

MUSA 1117 Trombone: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department 
for information.

MUSA 1117 Trombone: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Nudell, Matthew P
Description: Student may contact the instructor or department 
for information.

MUSA 1118 Euphonium: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department 
for information.

MUSA 1118 Euphonium: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Adams, Jared O
Description: Student may contact the instructor or department 
for information.

MUSA 1119 Tuba: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department 
for information.

MUSA 1119 Tuba: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Lee, Joshua John
Description: Student may contact the instructor or department 
for information.

MUSA 1121 Percussion: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department 
for information.

MUSA 1121 Percussion: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Rappel, Adam A
Description: Student may contact the instructor or department 
for information.

MUSA 1121 Percussion: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Horey, Scott Henry
Description: Student may contact the instructor or department 
for information.

MUSA 1123 Guitar: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Vanselow, Jason Paul
Description: Student may contact the instructor or department 
for information.

MUSA 1123 Guitar: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Everist, Evan P
Description: Student may contact the instructor or department 
for information.

MUSA 1123 Guitar: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent ;
Instructor: Lyden, Paul Thomas
Description: Student may contact the instructor or department 
for information.

MUSA 1301 Piano--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Shaw, Paul Magnus
Description: Student may contact the instructor or department 
for information.

MUSA 1301 Piano--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Artyrnw, Lydia
Description: Student may contact the instructor or department 
for information.

MUSA 1301 Piano--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department 
for information.

MUSA 1302 Harpsichord--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department 
for information.

MUSA 1303 Organ--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department 
for information.

MUSA 1304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department 
for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Mauric, Glenda A  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Kierig, Barbara G  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Zaro-Mullins, Wendy  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: De Haan, John  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Giering-De Haan, Jane Elizabeth  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Zawisza, Philip David  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Lawrence, Cynthia  
Description: Student may contact the instructor or department for information.

MUSA 1305 Violin--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Kim, Young-Nam  
Description: Student may contact the instructor or department for information.

MUSA 1305 Violin--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Fleezanis, Joria K  
Description: Student may contact the instructor or department for information.

MUSA 1305 Violin--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: O'Reilly, Sally P  
Description: Student may contact the instructor or department for information.

MUSA 1305 Violin--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Bjork, Mark P  
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 1312</td>
<td>Clarinet--Major</td>
<td>Meffert-Nelson, Karrin Diane</td>
<td>Student may contact the instructor or department for information.</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
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<td>prerequisite: Audition, dept consent;</td>
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<tr>
<td>Instructor: Hara, Burt T</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<td>MUSA 1313</td>
<td>Saxophone--Major</td>
<td>Wyant, Angela J.</td>
<td>Student may contact the instructor or department for information.</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
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<tr>
<td>prerequisite: Audition, dept consent;</td>
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<td>Instructor: Rousseau, Eugene E</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<td>MUSA 1314</td>
<td>Bassoon--Major</td>
<td>Miller Jr, John W</td>
<td>Student may contact the instructor or department for information.</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
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<td>prerequisite: Audition, dept consent;</td>
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<td>Instructor: Nielsbowski, Norbert John</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1315</td>
<td>French Horn--Major</td>
<td>Tramper, John Harrington</td>
<td>Student may contact the instructor or department for information.</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
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<tr>
<td>prerequisite: Audition, dept consent;</td>
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<tr>
<td>Instructor: Lemen, Caroline May</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1316</td>
<td>Trumpet--Major</td>
<td>Meza, Fernando A.</td>
<td>Student may contact the instructor or department for information.</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
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<td>prerequisite: Audition, dept consent;</td>
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<tr>
<td>Instructor: Meza, Fernando A.</td>
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<tr>
<td>Description: Student may contact the instructor or department for information.</td>
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</table>
MUSA 1321 Percussion--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Yeager, Steven Michael
Description: Student may contact the instructor or department for information.

MUSA 1321 Percussion--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MUSA 1322 Harp--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Kenzie, Kathy
Description: Student may contact the instructor or department for information.

MUSA 1323 Guitar--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Flegel, James F
Description: Student may contact the instructor or department for information.

MUSA 1323 Guitar--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Van, Jeffrey Wylie
Description: Student may contact the instructor or department for information.

MUSA 1401 Piano--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Music major, dept consent;
Instructor: STAFF
Description: Individual piano instruction by graduate piano TAs for music majors who have completed Class Piano Mus 1151-1152 or equivalent proficiency. Weekly half-hour lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Information on applied music fees and how to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, or at http://www.music.umn.edu/degrees/degreesundergrad.htm
Style: individual lessons
Grading: 40% final exam, 60% other evaluation. weekly lesson preparation
Exam Format: individual keyboard performance (jury)

MUSA 1402 Harpsichord--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1403 Organ--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Mahnke, Allan Wayne
Description: Student may contact the instructor or department for information.

MUSA 1403 Organ--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Kenning, Kristin
Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Morant, Kristin Paige
Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Miller, Brandon Wayne
Description: Student may contact the instructor or department for information.

MUSA 1404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Renbarger, Cory James
Description: Student may contact the instructor or department for information.

MUSA 1405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 1405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Moiseeva, Natalia
Description: Student may contact the instructor or department for information.

MUSA 1405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Petersen, Leif H
Description: Student may contact the instructor or department for information.

MUSA 1406 Viola--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Little, Valerie Michelle
Description: Student may contact the instructor or department for information.

MUSA 1407 Cello--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Nelson, Gregory A
Description: Student may contact the instructor or department for information.

MUSA 1407 Cello--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Alvarez, Ramiro R
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Instructor</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MUSA 1408</td>
<td>Double Bass--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<tr>
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<td>Instructor: Ciute, James Lewis</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 1409</td>
<td>Flute--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td></td>
<td>Instructor: Davis, Immanuel</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 1409</td>
<td>Flute--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Taylor, Rachel Mary</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1411</td>
<td>Oboe--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Rogalski, Michal</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 1412</td>
<td>Clarinet--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Friberg, Daniel Seth</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1413</td>
<td>Saxophone--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Wright, Scott Wayne</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1414</td>
<td>Bassoon--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Nielubowski, Norbert John</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1414</td>
<td>Bassoon--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Kern, Stacy J</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1415</td>
<td>French Horn--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Wolf, Jenna M</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1416</td>
<td>Trumpet--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<td>Instructor: Wedekind, Todd Allen</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 1417</td>
<td>Trombone--Secondary</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prerequisite: Audition, dept consent;</td>
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<tr>
<td></td>
<td></td>
<td>Instructor: Tranter, John Harrington</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Instructor: Shaw, Paul Magnus  
Description: Student may contact the instructor or department for information.

MUSA 1501 Piano: Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Artyomiw, Lydia  
Description: Student may contact the instructor or department for information.

MUSA 1501 Piano: Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Shockley, Rebecca P  
Description: Student may contact the instructor or department for information.

MUSA 1502 Harpsichord: Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MUSA 1503 Organ-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Del Santo, Jean Marie  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Maurice, Gienda A  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Kierrig, Barbara G  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Zaro-Mullins, Wendy  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: De Haan, John  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Giering-De Haan, Jane Elizabeth  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Zawisza, Philip David  
Description: Student may contact the instructor or department for information.

MUSA 1504 Voice-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Lawrence, Cynthia  
Description: Student may contact the instructor or department for information.

MUSA 1505 Violin-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Kim, Young-Nam  
Description: Student may contact the instructor or department for information.

MUSA 1505 Violin-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: O'Reilly, Sally P  
Description: Student may contact the instructor or department for information.

MUSA 1505 Violin-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Wolf, Annalee  
Description: Student may contact the instructor or department for information.

MUSA 1505 Violin-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Turner, Thomas  
Description: Student may contact the instructor or department for information.

MUSA 1506 Viola-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Remenikova, Tanya  
Description: Student may contact the instructor or department for information.

MUSA 1506 Viola-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Turner, Thomas  
Description: Student may contact the instructor or department for information.

MUSA 1507 Cello-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Remenikova, Tanya  
Description: Student may contact the instructor or department for information.

MUSA 1508 Double Bass-Major Beyond Requirements  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Brown, Christopher Craig  
Description: Student may contact the instructor or department for information.
MUSA 1508 Double Bass-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Clute, James Lewis
Description: Student may contact the instructor or department for information.

MUSA 1509 Flute-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Coyne, Timothy
Description: Student may contact the instructor or department for information.

MUSA 1509 Flute-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Coyne, Timothy
Description: Student may contact the instructor or department for information.

MUSA 1509 Flute-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Coyne, Timothy
Description: Student may contact the instructor or department for information.

MUSA 1511 Oboe-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 1511 Oboe-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 1511 Oboe-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 1512 Clarinet-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Reeves, Daniel
Description: Student may contact the instructor or department for information.

MUSA 1512 Clarinet-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Reeves, Daniel
Description: Student may contact the instructor or department for information.

MUSA 1512 Clarinet-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Reeves, Daniel
Description: Student may contact the instructor or department for information.

MUSA 1513 Saxophone-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MUSA 1513 Saxophone-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MUSA 1513 Saxophone-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Milne, David A. L.
Description: Student may contact the instructor or department for information.

MUSA 1514 Bassoon-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Miller, John W
Description: Student may contact the instructor or department for information.

MUSA 1514 Bassoon-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Miller, John W
Description: Student may contact the instructor or department for information.

MUSA 1514 Bassoon-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Nielubowski, Norbert John
Description: Student may contact the instructor or department for information.

MUSA 1514 Bassoon-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Ullery, Charles G
Description: Student may contact the instructor or department for information.

MUSA 1515 French Horn-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Gast, Michael C
Description: Student may contact the instructor or department for information.

MUSA 1515 French Horn-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Gast, Michael C
Description: Student may contact the instructor or department for information.

MUSA 1516 Trumpet-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Boardner, Gary Alan
Description: Student may contact the instructor or department for information.

MUSA 1516 Trumpet-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Boardner, Gary Alan
Description: Student may contact the instructor or department for information.

MUSA 1517 Trombone-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1517 Trombone-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1518 Euphonium-Major Beyond Requirements
2-4 credit(s), max credits 32, 8 repeats allowed; prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1518 Euphonium-Major Beyond Requirements
2-4 credit(s), max credits 32, 8 repeats allowed; prereq Audition, dept consent;
MUSA 1521 Percussion-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Meza,Fernando A.
Description: Student may contact the instructor or department for information.

MUSA 1521 Percussion-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Hey,Philip C
Description: Student may contact the instructor or department for information.

MUSA 1521 Percussion-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Yeager,Steven Michael
Description: Student may contact the instructor or department for information.

MUSA 1521 Percussion-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Kogan,Peter
Description: Student may contact the instructor or department for information.

MUSA 1522 Harp-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Kienzle,Kathy
Description: Student may contact the instructor or department for information.

MUSA 1523 Guitar-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Fiegel,James F
Description: Student may contact the instructor or department for information.

MUSA 1523 Guitar-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent;
Instructor: Zaro-Mullins,Wendy
Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Billmeyer,Dean W
Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Kierig,Barbara G
Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Del Santo,Jeann Marie
Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Mauricz,Glenda A
Description: Student may contact the instructor or department for information.

MUSA 1901 Piano--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Shaw,Paul Magnus
Description: Student may contact the instructor or department for information.

MUSA 1902 Harpsichord--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Billmeyer,Dean W
Description: Student may contact the instructor or department for information.

MUSA 1903 Organ--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Del Santo,Jeann Marie
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Van,Jeffrey Wylie
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent;
Instructor: Artymiw,Lydia
Description: Student may contact the instructor or department for information.
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<td>De Haan, John</td>
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<td>MUSA 1905</td>
<td>Violin--Transfer</td>
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<td>MUSA 1909</td>
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<td>Instructor:</td>
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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MUSA 1913 Saxophone--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Miline, David A. L.
Description: Student may contact the instructor or department for information.

MUSA 1914 Bassoon--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Miller Jr, John W
Description: Student may contact the instructor or department for information.

MUSA 1914 Bassoon--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Nielubowski, Norbert John
Description: Student may contact the instructor or department for information.

MUSA 1915 French Horn--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MUSA 1916 Trumpet--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MUSA 1917 Trombone--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1918 Euphonium--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1918 Euphonium--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department for information.

MUSA 1918 Euphonium--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department for information.

MUSA 1919 Tuba--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1919 Tuba--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department for information.

MUSA 1919 Tuba--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MUSA 1922 Harp--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Audition, dept consent;
Instructor: Kienzle, Kathy
Description: Student may contact the instructor or department for information.
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<th>Credits</th>
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<td>Student may contact the instructor or department for information.</td>
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<td>Instructor: Van,Jeffrey Wylie</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<td>MUSA 2301</td>
<td>Piano-Performance Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
<td>Arnyiw Lydia</td>
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<td>Instructor: Shockley, Rebecca P</td>
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<td>MUSA 2305</td>
<td>Violin-Performance Major</td>
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<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 2306</td>
<td>Viola-Performance Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;</td>
<td>Wolf, Annalee</td>
<td>Student may contact the instructor or department for information.</td>
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<td>prerequisite Audition, dept consent;</td>
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<td>Instructor: Bjork, Mark P</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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MUSA 2307 Cello-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Remenikova,Tanya 
Description: Student may contact the instructor or department for information.

MUSA 2308 Double Bass--Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Brown,Christopher Craig 
Description: Student may contact the instructor or department for information.

MUSA 2306 Flute-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Clute,James Lewis 
Description: Student may contact the instructor or department for information.

MUSA 2310 Oboe--Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Reeve,Basil 
Description: Student may contact the instructor or department for information.

MUSA 2311 Oboe--Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Snow,John D 
Description: Student may contact the instructor or department for information.

MUSA 2312 Clarinet-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Anderson,John Edward 
Description: Student may contact the instructor or department for information.

MUSA 2312 Clarinet-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Metfert-Nelson,Karrin Diane 
Description: Student may contact the instructor or department for information.

MUSA 2312 Clarinet-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Hara,Burt T 
Description: Student may contact the instructor or department for information.

MUSA 2313 Saxophone-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Wyatt,Angela J. 
Description: Student may contact the instructor or department for information.

MUSA 2313 Saxophone-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Rousseau,Eugene E 
Description: Student may contact the instructor or department for information.

MUSA 2314 Bassoon-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Miller Jr,John W 
Description: Student may contact the instructor or department for information.

MUSA 2314 Bassoon-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Nielubowski,Norbert John 
Description: Student may contact the instructor or department for information.

MUSA 2315 French Horn-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Gast,Michael C 
Description: Student may contact the instructor or department for information.

MUSA 2316 Trumpet-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Baldwin,David B 
Description: Student may contact the instructor or department for information.

MUSA 2316 Trumpet-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Bordner,Gary Alan 
Description: Student may contact the instructor or department for information.

MUSA 2317 Trombone-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Tranter,John Harrington 
Description: Student may contact the instructor or department for information.

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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<td>MUSA 2318</td>
<td>Euphonium--Performance Major</td>
<td>Ashworth, Thomas Jackson</td>
<td>prereq Audition, dept consent; Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 2319</td>
<td>Tuba-Performance Major</td>
<td></td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<tr>
<td>MUSA 2318</td>
<td>Euphonium--Performance Major</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 2319</td>
<td>Tuba-Performance Major</td>
<td></td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 2319</td>
<td>Tuba-Performance Major</td>
<td></td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 2321</td>
<td>Percussion--Performance Major</td>
<td></td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<td>MUSA 2321</td>
<td>Percussion--Performance Major</td>
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<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent;</td>
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<td>MUSA 2321</td>
<td>Percussion--Performance Major</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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Instructor: Morant,Kristin Paige
Description: Student may contact the instructor or department for information.

MUSA 3104 Voice: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Miller,Brandon Wayne
Description: Student may contact the instructor or department for information.

MUSA 3104 Voice: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Renbarger,Cory James
Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Kim,Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Bjork,Mark P
Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Moiseeva,Natalia
Description: Student may contact the instructor or department for information.

MUSA 3105 Violin: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Petersen,Leif H
Description: Student may contact the instructor or department for information.

MUSA 3106 Viola: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Little,Valerie Michelle
Description: Student may contact the instructor or department for information.

MUSA 3107 Cello: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Nelson,Gregory A
Description: Student may contact the instructor or department for information.

MUSA 3107 Cello: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Alvarex,Ramiro R
Description: Student may contact the instructor or department for information.

MUSA 3108 Double Bass: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Clute,James Lewis
Description: Student may contact the instructor or department for information.

MUSA 3109 Flute: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Haas,James Ray
Description: Student may contact the instructor or department for information.

MUSA 3109 Flute: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Taylor,Rachel Mary
Description: Student may contact the instructor or department for information.

MUSA 3111 Oboe: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent
Instructor: Rogalski,Michal
Description: Student may contact the instructor or department for information.

MUSA 3112 Clarinet: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Friberg,Daniel Seth
Description: Student may contact the instructor or department for information.

MUSA 3113 Saxophone: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Wright,Scott Wayne
Description: Student may contact the instructor or department for information.

MUSA 3114 Bassoon: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Kern,Stacy J
Description: Student may contact the instructor or department for information.

MUSA 3115 French Horn: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Wedekind,Todd Allen
Description: Student may contact the instructor or department for information.

MUSA 3116 Trumpet: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Nudell,Matthew P
Description: Student may contact the instructor or department for information.

MUSA 3118 Euphonium: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Adams,Jared O
Description: Student may contact the instructor or department for information.

MUSA 3119 Tuba: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent
Instructor: Tranler,John Harrington
Description: Student may contact the instructor or department for information.

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MUSA 3119 Tuba: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Lee, Joshua John
Description: Student may contact the instructor or department for information.

MUSA 3121 Percussion: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Rappe, Adam A
Description: Student may contact the instructor or department for information.

MUSA 3121 Percussion: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Rappe, Scott Henry
Description: Student may contact the instructor or department for information.

MUSA 3123 Guitar: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Vanselow, Jason Paul
Description: Student may contact the instructor or department for information.

MUSA 3123 Guitar: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Lyden, Paul Thomas
Description: Student may contact the instructor or department for information.

MUSA 3123 Guitar: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Mendoza-Santiago, Eduardo
Description: Student may contact the instructor or department for information.

MUSA 3301 Piano--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Shaw, Paul Magnus
Description: Student may contact the instructor or department for information.

MUSA 3301 Piano--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Shockley, Rebecca P
Description: Student may contact the instructor or department for information.

MUSA 3301 Piano--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Braginsky, Alexander
Description: Student may contact the instructor or department for information.

MUSA 3302 Harpsichord--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 3303 Organ--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Kierig, Barbara G
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Giering-De Haan, Jane Elizabeth
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 3305 Violin--Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.
MUSA 3305 Violin—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 3305 Violin—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MUSA 3305 Violin—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 3306 Viola—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Wolf, Annalee
Description: Student may contact the instructor or department for information.

MUSA 3306 Viola—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
Instructor: Turner, Thomas
Description: Student may contact the instructor or department for information.

MUSA 3307 Cello—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 3308 Double Bass—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MUSA 3308 Double Bass—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
Instructor: Clute, James Lewis
Description: Student may contact the instructor or department for information.

MUSA 3309 Flute—Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MUSA 3311 Oboe—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Reeves, Basil
Description: Student may contact the instructor or department for information.

MUSA 3311 Oboe—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 3312 Clarinet—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Anderson, John Edward
Description: Student may contact the instructor or department for information.

MUSA 3312 Clarinet—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Rousseaux, Eugene E
Description: Student may contact the instructor or department for information.

MUSA 3313 Saxophone—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MUSA 3313 Saxophone—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
Instructor: Milner, David A. L.
Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Miller, Jr., John W
Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
Instructor: Nielsubowksi, Norbert John
Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
Instructor: Ulery, Charles G
Description: Student may contact the instructor or department for information.
MUSA 3315 French Horn—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MUSA 3315 French Horn—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Gast, Michael C
Description: Student may contact the instructor or department for information.

MUSA 3316 Trumpet—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MUSA 3316 Trumpet—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 3317 Trombone—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 3317 Trombone—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Bordner, Gary Alan
Description: Student may contact the instructor or department for information.

MUSA 3318 Euphonium—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MUSA 3318 Euphonium—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MUSA 3318 Euphonium—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department for information.

MUSA 3319 Tuba—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 3319 Tuba—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MUSA 3321 Percussion—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Yeager, Steven Michael
Description: Student may contact the instructor or department for information.

MUSA 3322 Harp—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Kienzle, Kathy
Description: Student may contact the instructor or department for information.

MUSA 3323 Guitar—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Flegel, James F
Description: Student may contact the instructor or department for information.

MUSA 3323 Guitar—Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Van, Jeffrey Wylie
Description: Student may contact the instructor or department for information.

MUSA 5101 Piano: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent;
Instructor: Shaw, Paul Magnus
Description: Student may contact the instructor or department for information.

MUSA 5101 Piano: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent;
Instructor: Artymiw, Lydia
Description: Student may contact the instructor or department for information.

MUSA 5101 Piano: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent;
Instructor: Yeager, Steven Michael
Description: Student may contact the instructor or department for information.

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<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>MUSA 5101</td>
<td>Piano: Elective</td>
<td>Shockley, Rebecca P</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td>Braginsky, Alexander</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5102</td>
<td>Harpsichord: Elective</td>
<td>Billmeyer, Dean W</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td>De Haan, John</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5103</td>
<td>Organ: Elective</td>
<td>Mahnke, Allan Wayne</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td>Del Santo, Jean Marie</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5104</td>
<td>Voice: Elective</td>
<td>Maurice, Glenda A</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td></td>
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<td>Kierig, Barbara G</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5104</td>
<td>Voice: Elective</td>
<td>Zawisza, Philip David</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td></td>
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<td>Lawrence, Cynthia</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>Lawrence, Cynthia</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td></td>
<td></td>
<td>Kim, Young-Nam</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>Fleitz, Joria K</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5106</td>
<td>Viola: Elective</td>
<td>O'Reilly, Sally P</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<tr>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5107</td>
<td>Cello: Elective</td>
<td>Bjork, Mark P</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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</tr>
<tr>
<td>MUSA 5108</td>
<td>Double Bass: Elective</td>
<td>Brown, Christopher Craig</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
</tr>
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<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5109</td>
<td>Flute: Elective</td>
<td>Davis, Immanuel</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq dept consent</td>
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<td>Description: Student may contact the instructor or department for information.</td>
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MUSA 5111 Oboe: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Bascom, David B  
Description: Student may contact the instructor or department for information.

MUSA 5111 Oboe: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Snow, John D  
Description: Student may contact the instructor or department for information.

MUSA 5112 Clarinet: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Anglin, Janice L.  
Description: Student may contact the instructor or department for information.

MUSA 5113 Saxophone: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Wood, David A. L.  
Description: Student may contact the instructor or department for information.

MUSA 5113 Saxophone: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Wedekind, Todd Allen  
Description: Student may contact the instructor or department for information.

MUSA 5114 Bassoon: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Milne, David A. L.  
Description: Student may contact the instructor or department for information.

MUSA 5114 Bassoon: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 5115 French Horn: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Lemieux, Pierre  
Description: Student may contact the instructor or department for information.

MUSA 5115 French Horn: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Hart, Clayton R.  
Description: Student may contact the instructor or department for information.

MUSA 5116 Trumpet: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Baldwin, David B  
Description: Student may contact the instructor or department for information.

MUSA 5116 Trumpet: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Bordner, Gary Alan  
Description: Student may contact the instructor or department for information.

MUSA 5116 Trumpet: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 5117 Trombone: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 5118 Euphonium: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 5119 Tuba: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 5121 Percussion: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Meza, Fernando A.  
Description: Student may contact the instructor or department for information.

MUSA 5123 Guitar: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Flegel, James F  
Description: Student may contact the instructor or department for information.

MUSA 5401 Piano–Secondary  
A-F only, 2–4 credit(s), max credits 24, 12 repeats allowed;  
prereq Audition, dept consent;
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<th>Course Title</th>
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<th>Description</th>
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<td>Shaw, Paul Magnus</td>
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<td>Instructor: Del Santo, Jean Marie</td>
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<tr>
<td>MUSA 5404</td>
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<td>A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; prereq Audition, dept consent;</td>
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<td>Instructor: Maurice, Glenda A</td>
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<td>A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; prereq Audition, dept consent;</td>
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<td>MUSA 5407</td>
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<td>Instructor: Remenikova, Tanya</td>
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</table>

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUSA 5407 Cello--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Alvarez,Ramiro R 
Description: Student may contact the instructor or department for information.

MUSA 5408 Double Bass--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Brown,Christopher Craig 
Description: Student may contact the instructor or department for information.

MUSA 5408 Double Bass--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Clute,James Lewis 
Description: Student may contact the instructor or department for information.

MUSA 5409 Flute--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Bogorad,Julia A 
Description: Student may contact the instructor or department for information.

MUSA 5409 Flute--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Davis,Immanuel 
Description: Student may contact the instructor or department for information.

MUSA 5411 Oboe--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Reeve,Basil 
Description: Student may contact the instructor or department for information.

MUSA 5411 Oboe--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Snow,John D 
Description: Student may contact the instructor or department for information.

MUSA 5412 Clarinet--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Anderson,John Edward 
Description: Student may contact the instructor or department for information.

MUSA 5412 Clarinet--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Jeffert-Nelson,Karrin Diane 
Description: Student may contact the instructor or department for information.

MUSA 5412 Clarinet--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Hara,Burt T 
Description: Student may contact the instructor or department for information.

MUSA 5413 Saxophone--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Wyatt,Angela J. 
Description: Student may contact the instructor or department for information.

MUSA 5413 Saxophone--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Rousseau,Eugene E 
Description: Student may contact the instructor or department for information.

MUSA 5414 Bassoon--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Miller Jr,John W 
Description: Student may contact the instructor or department for information.

MUSA 5414 Bassoon--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Nielubowski,Norbert John 
Description: Student may contact the instructor or department for information.

MUSA 5414 Bassoon--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Tranter,John Harrington 
Description: Student may contact the instructor or department for information.

MUSA 5415 French Horn--Secondary
2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent ; 
Instructor: Lemen,Caroline May 
Description: Student may contact the instructor or department for information.

MUSA 5415 French Horn--Secondary
2-4 credit(s), max credits 4, 1 repeat allowed; 
prereq Audition, dept consent ; 
Instructor: Gast,Michael C 
Description: Student may contact the instructor or department for information.

MUSA 5416 Trumpet--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Baldwin,David B 
Description: Student may contact the instructor or department for information.

MUSA 5416 Trumpet--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Bordner,Gary Alan 
Description: Student may contact the instructor or department for information.

MUSA 5417 Trombone--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Tranter,John Harrington 
Description: Student may contact the instructor or department for information.

MUSA 5418 Baritone--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Tranter,John Harrington 
Description: Student may contact the instructor or department for information.

MUSA 5419 Tuba--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent;
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<td>MUSA 5423</td>
<td>Guitar--Secondary</td>
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<td>MUSA 5421</td>
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<td>MUSA 8302</td>
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<td>MUSA 8304</td>
<td>Voice--Major</td>
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**Description:** Student may contact the instructor or department for information.

**Instructor:** Tranter, John Harrington

**Description:** Student may contact the instructor or department for information.

**Instructor:** Werden, David Ray

**Description:** Student may contact the instructor or department for information.

**Instructor:** Hey, Philip C

**Description:** Student may contact the instructor or department for information.

**Instructor:** Zawisza, Philip David

**Description:** Student may contact the instructor or department for information.

**Instructor:** Giering-De Haan, Jane Elizabeth

**Description:** Student may contact the instructor or department for information.

**Instructor:** De Haan, John

**Description:** Student may contact the instructor or department for information.

**Instructor:** Kierig, Barbara G

**Description:** Student may contact the instructor or department for information.

**Instructor:** Maurice, Glenda A

**Description:** Student may contact the instructor or department for information.

**Instructor:** Del Santo, Jean Marie

**Description:** Student may contact the instructor or department for information.

**Instructor:** Billmeyer, Dean W

**Description:** Student may contact the instructor or department for information.

**Instructor:** Braginsky, Alexander

**Description:** Student may contact the instructor or department for information.

**Instructor:** Billmeyer, Dean W

**Description:** Student may contact the instructor or department for information.

**Instructor:** Yeager, Steven Michael

**Description:** Student may contact the instructor or department for information.

**Instructor:** Zaro-Mullins, Wendy

**Description:** Student may contact the instructor or department for information.

**Instructor:** Billmeyer, Dean W

**Description:** Student may contact the instructor or department for information.

**Instructor:** Meza, Fernando A.

**Description:** Student may contact the instructor or department for information.

**Instructor:** Kogan, Peter

**Description:** Student may contact the instructor or department for information.

**Instructor:** Fiegel, James F

**Description:** Student may contact the instructor or department for information.

**Instructor:** Van, Jeffrey Wylie

**Description:** Student may contact the instructor or department for information.

**Instructor:** Shaw, Paul Magnus

**Description:** Student may contact the instructor or department for information.

**Instructor:** Artymiw, Lydia

**Description:** Student may contact the instructor or department for information.
MUSA 8304 Voice--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Lawrence, Cynthia
Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Flezianis, Joria K
Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 8305 Violin--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUSA 8306 Viola--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Wolf, Annalee
Description: Student may contact the instructor or department for information.

MUSA 8306 Viola--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Turner, Thomas
Description: Student may contact the instructor or department for information.

MUSA 8307 Cello--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 8308 Double Bass--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MUSA 8308 Double Bass--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Clute, James Lewis
Description: Student may contact the instructor or department for information.

MUSA 8309 Flute--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MUSA 8309 Flute--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MUSA 8311 Oboe--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Reeve, Basil
Description: Student may contact the instructor or department for information.

MUSA 8311 Oboe--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 8312 Clarinet--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Anderson, John Edward
Description: Student may contact the instructor or department for information.

MUSA 8312 Clarinet--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Hara, Burt T
Description: Student may contact the instructor or department for information.

MUSA 8313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MUSA 8313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MUSA 8313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Moline, David A. L.
Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Miller Jr., John W
Description: Student may contact the instructor or department for information.
Instructor: Nielubowski, Norbert John
Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Ulery, Charles G
Description: Student may contact the instructor or department for information.

MUSA 8315 French Horn--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MUSA 8316 Trumpet--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MUSA 8317 Trombone--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 8318 Euphonium--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 8319 Tuba--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Werden, David Ray
Description: Student may contact the instructor or department for information.

MUSA 8320 Harp--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MUSA 8321 Guitar--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Van, Jeffrey Wylie
Description: Student may contact the instructor or department for information.

MUSA 8322 Accompanying/Coaching
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Lovelace, Timothy
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUSA 8324 Accompanying/Coaching
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; prereq Audition, dept consent;
Instructor: Kawai, Noriko
Description: Student may contact the instructor or department for information.

MUSA 8501 Piano: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Shaw, Paul Magnus
Description: Student may contact the instructor or department for information.

MUSA 8501 Piano: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Arntmyr, Lydia
Description: Student may contact the instructor or department for information.

MUSA 8501 Piano: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Shockley, Rebecca P
Description: Student may contact the instructor or department for information.

MUSA 8501 Piano: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Braginsky, Alexander
Description: Student may contact the instructor or department for information.

MUSA 8503 Organ: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Maurice, Glenda A
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Kierig, Barbara G
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Giering-De Haan, Jane Elizabeth
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Zawiszas, Philip David
Description: Student may contact the instructor or department for information.

MUSA 8504 Voice: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Lawrence, Cynthia
Description: Student may contact the instructor or department for information.

MUSA 8505 Violin: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Kawai, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 8505 Violin: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Fleezanis, Joria K
Description: Student may contact the instructor or department for information.

MUSA 8505 Violin: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 8505 Violin: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUSA 8506 Viola: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Wolf, Annalee
Description: Student may contact the instructor or department for information.

MUSA 8506 Viola: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Turner, Thomas
Description: Student may contact the instructor or department for information.

MUSA 8507 Cello: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 8508 Double Bass: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
MUSA 8508 Double Bass: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Clute, James Lewis
Description: Student may contact the instructor or department for information.

MUSA 8509 Flute: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MUSA 8509 Flute: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MUSA 8511 Oboe: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Reeve, Basil
Description: Student may contact the instructor or department for information.

MUSA 8511 Oboe: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 8512 Clarinet: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Anderson, John Edward
Description: Student may contact the instructor or department for information.

MUSA 8512 Clarinet: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Meffert-Nelson, Karrin Diane
Description: Student may contact the instructor or department for information.

MUSA 8512 Clarinet: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Hara, Burt T
Description: Student may contact the instructor or department for information.

MUSA 8513 Saxophone: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MUSA 8513 Saxophone: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MUSA 8513 Saxophone: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Tranler, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 8514 Bassoon: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Nielubowski, Norbert John
Description: Student may contact the instructor or department for information.

MUSA 8514 Bassoon: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Ullery, Charles G
Description: Student may contact the instructor or department for information.

MUSA 8515 French horn: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MUSA 8516 Trumpet: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Bordner, Gary Alan
Description: Student may contact the instructor or department for information.

MUSA 8517 Trombone: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MUSA 8518 Euphonium: Beyond Requirement
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;
prereq instr consent;
Instructor: Tranler, John Harrington
Description: Student may contact the instructor or department for information.
MUSA 8518 Euphonium: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
prereq instr consent;  
Instructor: Ashworth, Thomas Jackson  
Description: Student may contact the instructor or department for information.

MUSA 8518 Euphonium: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
prereq instr consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 8519 Tuba: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
prereq instr consent;  
Instructor: Campbell, Steven C  
Description: Student may contact the instructor or department for information.

MUED 5011 Music in the Elementary Classroom Curriculum  
A-F only, 3 credit(s); prereq Mus 1001, elem ed grad student, dept consent;  
Instructor: Pohland, Glenn E  
Description: Student may contact the instructor or department for information.

MUED 3502 String Techniques and Teaching  
A-F only, 2 credit(s); prereq Music ed or music therapy major or instr consent;  
Instructor: Thoen, Marcia L  
Description: Student may contact the instructor or department for information.

MUED 3503 Woodwind Techniques and Teaching  
A-F only, 2 credit(s); prereq Music ed or music therapy major or instr consent;  
Instructor: Kellermeyer, Rebecca  
Description: Student may contact the instructor or department for information.

MUED 3517 Beginning Instrumental Methods and Materials  
A-F only, 3 credit(s); prereq 3516, MUS 3502, MUS 3512 music education major, dept consent;  
Instructor: Pohland, Glenn E  
Description: Student may contact the instructor or department for information.

MUED 5011 Music in the Elementary Classroom Curriculum  
2 credit(s); prereq Mus 1001, elem ed grad student, dept consent;  
Instructor: STAFF  
Description: This course is designed to prepare pre-service teachers with materials and strategies to plan and integrate for information.
multi-cultural music instruction for elementary school children. Students will need a tuning fork = A, soprano recorder with Baroque-English fingering and one blank VHS videotape. Students will sing, play instruments, sight read and conduct.

**Style:** 20% Lecture, 40% Discussion, 40% Laboratory.

**Grading:** 5% final exam, 20% quizzes, 40% in-class presentation, 15% class participation, 20% problem solving.

**Exam Format:** Essay

**MUED 5350 Student Teaching in Classroom Music**

A-F only, 4-8 credit(s); max credits 8, 1 repeat allowed; prereq Music ed major, instr consent ;

**Instructor:** Kellermeyer,Rebecca

**Description:** Student may contact the instructor or department for information.

**MUED 5450 Student Teaching in Vocal Music**

A-F only, 4-8 credit(s), max credits 8, 1 repeat allowed; prereq Music ed major, instr consent Credit will not be granted if the student has already completed MuEd 3450;

**Instructor:** Hamann,Ketha Lucas

**Description:** Student may contact the instructor or department for information.

**MUED 5550 Student Teaching in Instrumental Music**

A-F only, 4-8 credit(s), max credits 8, 1 repeat allowed; prereq Music ed major, instr consent Credit will not be granted if the student has already completed MuEd 3550;

**Instructor:** Pohland,Glenn E

**Description:** Student may contact the instructor or department for information.

**MUED 5650 Student Teaching Seminar**

A-F only, 2 credit(s); prereq At least C- in all required [music, music education, professional education] courses Credit will not be granted if the student has already completed MuEd 3650;

**Instructor:** Kellermeyer,Rebecca

**Description:** Student may contact the instructor or department for information.

**MUED 5664 Teaching Music with Technology**

A-F only, 3 credit(s);

**Instructor:** Lipscomb,Scott D.

**Description:** Student may contact the instructor or department for information.

**MUED 5800 Group Music Leadership Skills**

A-F only, 3 credit(s); prereq [[Completion of [MUS 1151, MUS 1152] or MUS 1155], music therapy major] or instr consent Credit will not be granted if the student has already completed MuEd 3800;

**Instructor:** Schwartzberg,Edward Todd

**Description:** Student may contact the instructor or department for information.

**MUED 5805 Music Therapy Methods and Procedures II**

A-F only, 4 credit(s); prereq 5804 or instr consent Credit will not be granted if the student has already completed MuEd 3805;

**Instructor:** Silverman,Michael J

**Description:** Student may contact the instructor or department for information.

**MUED 5806 Internship Preparation**

A-F only, 3 credit(s); prereq 5805 or instr consent Credit will not be granted if the student has already completed MuEd 3806;

**Instructor:** Silverman,Michael J

**Description:** Student may contact the instructor or department for information.

**MUED 5855 Music Therapy Internship**

S-N only, 0-13 credit(s), max credits 13, 1 repeat allowed; prereq Music therapy major, instr consent Credit will not be granted if the student has already completed MuEd 3855;

**Instructor:** Silverman,Michael J

**Description:** Student may contact the instructor or department for information.

**MUED 8119 Advanced Applications of Research Methods**

A-F only, 3 credit(s); prereq Grad music education student or instr consent ;

**Instructor:** Lipscomb,Scott D.

**Description:** Student may contact the instructor or department for information.

**MUED 8280 Seminar: Current Trends in Music Education**

A-F only, 3 credit(s), max credits 30, 10 repeats allowed; prereq dept consent ;

**Instructor:** Hamann,Ketha Lucas

**Description:** Student may contact the instructor or department for information.

**MUED 8900 Seminar: Music Education Doctoral Seminar**

A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prereq dept consent ;

**Instructor:** Lipscomb,Scott D.

**Description:** Student may contact the instructor or department for information.

**Nanoparticle Science and Engineering**

125 Mechanical Engineering

**NPSE 8002 Nanoparticle Science and Engineering Laboratory**

A-F only, 3 credit(s); prereq 8001, [IT grad student or instr consent];

**Instructor:** Aydil,Eray S

**Description:** Student may contact the instructor or department for information.

**NPSE 8101 Nanoparticle Science and Engineering Seminar**

S-N only, 1 credit(s); prereq IT grad student or;

**Instructor:** Kortshagen,Uwe Richard

**Description:** Student may contact the instructor or department for information.

**Naval Science**

203 Armory

**NAV 1000 Professional Training in Naval Science**

S-N only, 1 credit(s); prereq enrolled in NROTC;

**Instructor:** Fitzsimmons,Cameron Ann

**Description:** Student may contact the instructor or department for information.

**NAV 1102 Seapower and Maritime Affairs**

A-F only, 3 credit(s);

**Instructor:** McFadden,Taeko Elizabeth

**Description:** Student may contact the instructor or department for information.

**NAV 2000 Professional Training in Naval Science**

S-N only, 1 credit(s); prereq Soph enrolled in NROTC;

**Instructor:** Fitzsimmons,Cameron Ann

**Description:** Student may contact the instructor or department for information.

**NAV 2201 Ship Systems I: Naval Engineering**

A-F only, 3 credit(s);

**Instructor:** Essler,Joshua David

**Description:** Student may contact the instructor or department for information.
NAV 2202 Ship Systems II: Science and Technology in Naval Weapons Systems
A-F only, 3 credit(s);
Instructor: Essler, Joshua David
Description: Student may contact the instructor or department for information.

NAV 3000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq Jr enrolled in NROTC;
Instructor: Fitzsimmons, Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 3301 Navigation I: Piloting and Celestial Navigation
A-F only, 3 credit(s);
Instructor: Schaefler, Crystal Lynn

NAV 3302 Navigation II: Seamanship and Ship Operations
A-F only, 3 credit(s); prereq 3301;
Instructor: Schaefler, Crystal Lynn
Description: Student may contact the instructor or department for information.

NAV 4000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq Sr enrolled in NROTC;
Instructor: Fitzsimmons, Cameron Ann
Description: Student may contact the instructor or department for information.

NAV 4402W Leadership and Ethics
A-F only, 3 credit(s); prereq 4401; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Nester, Duane
Description: Student may contact the instructor or department for information.

NSC 5202 Theoretical Neuroscience: Systems and Information Processing
3 credit(s); prereq [3101, 3102W] recommended;
Instructor: Redish, David
Description: Student may contact the instructor or department for information.

NSC 5462 Neuroscience Principles of Drug Abuse
2 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: PHCL 5462;
Instructor: Seybold, PhD, Virginia S
Description: Student may contact the instructor or department for information.

NSC 5661 Behavioral Neuroscience
A-F only, 3 credit(s); prereq Grad NSc major or grad NSc minor or instr consent;
Instructor: Mesce, Karen
Description: The neural coding and representation of movement parameters, and the neural mechanisms underlying higher order processes, such as memorization, memory scanning, and mental rotation are discussed. Emphasis is placed on (a) experimental psychological studies in human subjects, (b) functional neuroimaging studies in human subjects, including experiments using positron emission tomography (PET), (MEG), etc., (c) single cell recording experiments in subhuman primates, and (d) artificial neural network modeling.

NSC 8216 Selected Topics in Autonomic and Neuroendocrine Regulation
S-N only, 1 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: PHSL 8216;
Instructor: Engeland, William C
Description: Student may contact the instructor or department for information.

NSC 8217 Systems and Computational Neuroscience
S-N only, 2 credit(s); prereq 5561 or instr consent;
Instructor: Ghose, Geoffrey M
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: McLoon, Steven
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: Fairbanks, Carolyn Ann
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: Thomas, Kathleen M
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: Pardo, Jose Victor
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: Kofuji, Paul
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: Redish, David
Description: Student may contact the instructor or department for information.

NSC 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 repeats allowed;
Instructor: Yuan, Li Lian
Description: Student may contact the instructor or department for information.

NSC 8321 Career Skills and Understanding Responsibilities as a Neuroscientist
S-N only, 0.5 credit(s), max credits 2, 4 repeats allowed; prereq Neuroscience grad major or instr consent;
Instructor: Engeland, William C
Description: Student may contact the instructor or department for information.

NSCI 3102W Introduction to Neuroscience II: Biological Basis of Behavior
A-F only, 3 credit(s); prereq 3101 or BIOL 3101 or PHSL 3101; grade of at least B+ in 3101 recommended; Meets CLE req of Writing Intensive;
NSCI 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 7, 7 repeats allowed;
prereq instr consent , dept consent ; no more than 7 cr of
[4793, 4794, 4993, 4994] may count toward major
requirements; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This course consists of laboratory or field
investigation of selected areas of research, done under the
direction of a faculty mentor. The course is writing intensive.
Students will have the opportunity to present the results of their
research in the format of a scientific article. They will learn to
survey the current literature in their area of research, organize
data, use statistical analyses if appropriate, and effectively
communicate the results of their experiments through
construction of tables, graphs, and other figures. Also, students
will draw conclusions from their data and use persuasive
arguments to convince readers of their interpretations of the
data. Students will be required to write a 10-15 page paper in the
format of a scientific article. This course is graded pass/fail,
and the final grade is based on successful completion of the article.
Grading: 100% reports/papers.

NSCI 4993 Directed Studies
S-N only, 1-7 credit(s), max credits 7, 7 repeats allowed;
prereq instr consent , dept consent ; max of 7 cr of 4993
and/or 4994 may count toward major requirements;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

NSCI 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;
prereq instr consent , dept consent ; max of 7 cr of 4993
and/or 4994 may count toward major requirements;
Instructor: STAFF
Description: Student may contact the instructor or department
for information.

NSCI 4793W Directed Studies: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;
prereq instr consent , dept consent ; no more than 7 cr of
[4793, 4794, 4993, 4994] may count toward major
requirements; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Individual study of selected topics with emphasis
on readings and use of scientific literature. This course is writing
intensive. Students will have the opportunity to write a review
article on a topic in their discipline of interest. They will learn to
survey the current literature in a specific area of research,
organize the data available relevant to the research topic, and
effectively communicate this information in their paper. Also,
students will draw conclusions from their investigations of the
research topic and suggest directions for future research.
Students are required to write a 10-15 page paper in the format
of a scientific review article. An extensive survey of the literature
will be required in order to present the most current information
in the selected research area. This course is graded pass/fail,
and the final grade is based on successful completion of the
review article.
Grading: 100% reports/papers.

NSCI 5111 Medical Neuroscience for Professional Students
S-N only, 5 credit(s); prereq BioC 3021, Biol 4004, instr
consent; intended for grad students who require a
comprehensive medically-oriented neuroscience course;
Instructor: Giesler Jr,Glenn J
Description: Student may contact the instructor or department
for information.

NSCI 5110 Dental Neuroscience for Graduate Students
A-F only, 2 credit(s); prereq credit will not be granted if
credit received for: 6110; BioC 3021, Biol 4004, instr
consent; intended for grad students who require a
comprehensive grad-level neuroscience course;
Instructor: Simone,Donald A
Description: Student may contact the instructor or department
for information.

NSCI 6110 Neuroscience for Dental Students
A-F only, 2 credit(s); prereq credit will not be granted if
credit received for: 5110; Dental student;
Instructor: Simone,Donald A
Description: Student may contact the instructor or department
for information.

NSCI 6112 Medical Neuroscience for Professional Students
S-N only, 5 credit(s); prereq BioC 3021, Biol 4004, instr
consent; intended for non-medical professional students;
Instructor: Giesler Jr,Glenn J
Description: Student may contact the instructor or department
for information.

Norwegian
205 Folwell Hall

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online
Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class
Schedule.
has been received for: NOR 4002;  
Instructor: STAFF  
Description: This course continues the beginning language students’ acquisition of proficiency in all four areas of Norwegian: listening, speaking, reading and writing. Students will also gain knowledge of Norwegian culture through various means, including: the required text, “PA VEI” and the CD and grammar diskette which accompany the workbook. Lecture, class discussions and classroom exercises will be conducted in Norwegian. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Norway is an integral part of the course. See the course description for Nor 4002 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.  
Style: 10% Lecture, 70% Discussion, 20% Laboratory.  
Grading: 6% mid exam, 20% final exam, 35% quizzes, 14% class participation, 25% other evaluation. 14% homework, 6% skit, 5% journal.  
Exam Format: structured exercises in all 4 modalities and grammar, pronunciation, vocabulary and culture  
NOR 1004 Intermediate Norwegian  
5 credit(s); prereq 1103; Credit will not be granted if credit has been received for: NOR 4004;  
Instructor: STAFF  
Description: This course continues the presentation of Norwegian language skills begun in 1001-2. It is designed to review and expand your knowledge of Norwegian language structure, and to increase your comprehension and communicative abilities in the language. The primary text for the course is Stein pa stein by Ellingsen and MacDonald with an accompanying workbook with CD and grammar diskette. Students should expect to prepare at home for proficiently and actively participating in large and small-group interactive communicative activities in class. At this level, you will be reading and listening to more advanced authentic Norwegian material and you will expand and refine your vocabulary and your knowledge of grammar. The 1003-1004 course sequence will prepare you for the Graduation Proficiency Text (GPT) that you will take toward the end of 1004. See the description for Nor 4004 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.  
Style: 10% Lecture, 70% Discussion, 20% Laboratory.  
Grading: 100% other evaluation. 50% reading/writing; 50% oral/aural  
Exam Format: written essays, listening and reading protocols, structural exercises, oral interviews  
NOR 4002 Beginning Norwegian  
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: NOR 1002;  
Instructor: STAFF  
Description: See the course description for Nor 1002. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Nor 1004 under the number Nor 4004 for 2 credits. Contact the department office, 612-625-2080, for a permission number.  
Style: skits and presentations  
Grading: 6% mid exam, 20% final exam, 34% quizzes, 14% class participation, 25% other evaluation. 6% skit, 5% journal, 14% homework  
NOR 4004 Intermediate Norwegian  
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: NOR 1004;  
Instructor: STAFF  
Description: See the course description for Nor 1004. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Nor 1004 under the number Nor 4004 for 2 credits. Contact the department office, 612-625-2080, for a permission number.  
Nursing  
6-101 Weaver-Densford Hall  
NURS 2001 Human Growth and Development: A Life Span Approach  
3 credit(s); prereq General psychology course; Meets CLE req of Social Science Core;  
Instructor: Alaniz,Karin Lue  
Description: Student may contact the instructor or department for information.  
NURS 3115 Health Informatics: Clinical and Public Health  
A-F only, 2 credit(s); prereq Undergrad or instr consent ;  
Instructor: Kerr,Madeleine June  
Description: Student may contact the instructor or department for information.  
NURS 3702 Foundations of Professional Nursing  
A-F only, 3 credit(s); prereq Nursing student or instr consent;  
Instructor: Daniels,Jessie S  
Description: Student may contact the instructor or department for information.  
NURS 3702 Foundations of Professional Nursing  
A-F only, 3 credit(s); prereq Nursing student or instr consent;  
Instructor: Rhudy,Lori  
Description: Student may contact the instructor or department for information.  
NURS 3704 Nursing Fundamentals I: Assessment and Intervention  
A-F only, 5 credit(s); prereq Nursing student or instr consent;  
Instructor: Steffes,Mary Teresa  
Description: Student may contact the instructor or department for information.  
NURS 3704 Nursing Fundamentals I: Assessment and Intervention  
A-F only, 5 credit(s); prereq Nursing student or instr consent;  
Instructor: Rhudy,Lori  
Description: Student may contact the instructor or department for information.  
NURS 4320 Psychiatric and Mental Health Nursing  
A-F only, 5 credit(s);  
Instructor: Dean,Patrick Joseph  
Description: Develop skill in assessment of biopsychosocial needs, develop a holistic plan of care, help client negotiate care, and evaluate client outcomes. Students will establish therapeutic relationships with clients experiencing psychiatric illnesses using self as a therapeutic tool in promoting mental health. Prerequisites: Enrolled as Nursing Student in the School of Nursing.  
Style: 50% Lecture, 2% Film/Video, 2% Discussion, 40% Laboratory, 2% Demonstration, 9% Guest Speakers, 1% Web Based.  
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 15% additional semester exams, 5% class participation. A passing grade on clinical evaluations is required to pass the course.  
Exam Format: Multiple choice
### Spring 2009

#### NURS 4320 Psychiatric and Mental Health Nursing
- A-F only, 5 credit(s);
- Instructor: Darst, Elaine
- **Description:** Develop skill in assessment of biopsychosocial needs, develop a holistic plan of care, help client negotiate care, and evaluate client outcomes. Students will establish therapeutic relationships with clients experiencing psychiatric illnesses using self as a therapeutic tool in promoting mental health.
- **Prerequisites:** Enrolled as Nursing Student in the School of Nursing.
- **Style:** 50% Lecture, 2% Film/Video, 2% Discussion, 40% Laboratory, 2% Demonstration, 3% Guest Speakers, 1% Web Based.
- **Grading:** 20% mid exam, 20% final exam, 40% reports/papers, 15% additional semester exams, 5% class participation. A passing grade on clinical evaluations is required to pass the course.
- **Exam Format:** Multiple choice

#### NURS 4322 Population-based Public Health Nursing
- A-F only, 5 credit(s); prerequisite Nursing or Instr consent;
- Instructor: Flaten, Carol
- **Description:** Student may contact the instructor or department for information.

#### NURS 4324 Transcultural Nursing and Global Health
- A-F only, 3 credit(s); prerequisite Nursing student or Instr consent;
- **Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme;**
- Instructor: Martin, Lisa C
- **Description:** Student may contact the instructor or department for information.

#### NURS 4326 Nursing Care of Older Adults
- A-F only, 3 credit(s); prerequisite Human Experience of Health and Illness, Introduction to Ethics, Introduction to Nursing, Therapeutic Communication, Nursing Fundamentals, Complex Nursing Interventions, Family Focused Care Across the Lifespan I;
- Instructor: Mueller, Christine Ann
- **Description:** Student may contact the instructor or department for information.

#### NURS 4402 Taking Ethical Action in Health Care
- 1 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
- Instructor: O'Connor-Von, Susan K.
- **Description:** Student may contact the instructor or department for information.

#### NURS 4402 Taking Ethical Action in Health Care
- 1 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
- Instructor: Liaschenko, Joan
- **Description:** Student may contact the instructor or department for information.

#### NURS 4403 Nursing Care of Childbearing Families
- A-F only, 4 credit(s); prerequisite 4201, 4203;
- Instructor: Rossi, Mary A.
- **Description:** Student may contact the instructor or department for information.

#### NURS 4406 Nursing Care of Infants, Children, and Adolescents
- A-F only, 4 credit(s); prerequisite 4201, 4203;
- Instructor: Fjone, Andra Lynn
- **Description:** Student may contact the instructor or department for information.

#### NURS 4500 W Nursing Leadership and Health Care Systems
- A-F only, 4 credit(s); prerequisite Nursing student or Instructor consent; Meets CLE req of Writing Intensive;
- Instructor: Chesney, Mary L
- **Description:** Student may contact the instructor or department for information.

#### NURS 4500W Nursing Leadership and Health Care Systems
- A-F only, 4 credit(s); prerequisite Nursing student or Instructor consent; Meets CLE req of Writing Intensive;
- Instructor: Herrick, Linda Marie
- **Description:** Student may contact the instructor or department for information.

#### NURS 4502 Clinical Immersion
- A-F only, 6 credit(s); prerequisite 3702, 3704, 3706, 4200, 4203, [4205V or 4205W], 4322, 4326, 4500, 4504;
- Instructor: Dunlap, Karen J
- **Description:** Student may contact the instructor or department for information.

#### NURS 4504 Professional Issues
- A-F only, 2 credit(s); prerequisite Concurrent registration is required (or allowed) in 4500;
- Instructor: Herrick, Linda Marie
- **Description:** Student may contact the instructor or department for information.

#### NURS 5031 Human Response to Health and Illness: Adults and Elders
- A-F only, 6 credit(s); prerequisite Professional master of nursing [MN] student;
- Instructor: Kessler, Penny
- **Description:** Student may contact the instructor or department for information.

#### NURS 5032 Human Response to Health and Illness: Children and Childbearing Families
- A-F only, 6 credit(s); prerequisite Professional master of nursing [MN] student;
- Instructor: Frisvold, Melissa Hanner
- **Description:** Student may contact the instructor or department for information.

#### NURS 5040H Seeking Solutions to Global Health Issues
- 3 credit(s); prerequisite Grad student or sr Nursing Honors student or upper div Honors or Instructor consent; Meets CLE req of International Perspect Theme;
- Instructor: Robertson, Cheryl Lee
- **Description:** Student may contact the instructor or department for information.

#### NURS 5113 Web-based Teaching and Learning Strategies
- S-N only, 2 credit(s);
- Instructor: Cohen, Bradley A
- **Description:** Student may contact the instructor or department for information.

#### NURS 5115 Interprofessional Health Care Informatics
- A-F only, 3 credit(s);
- Instructor: Clancy, Thomas R
- **Description:** Student may contact the instructor or department for information.

#### NURS 5183 Scholarly Leadership
- S-N only, 1 credit(s); prerequisite Advanced doctoral nursing student, instructor consent;
- Instructor: Edwardson, Sandra R
- **Description:** Student may contact the instructor or department for information.

#### NURS 5200 Holistic Health Assessment and Therapeutics for Advanced Practice Nurses
- 3 credit(s); prerequisite Nursing grad student or professional master of nursing [MN] student;
- Instructor: Schadewald, Diane Marie

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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
NURS 5223 Assessment of Psychopathology for Advanced Practice Psychiatric/Mental Health Nursing
4 credit(s); prereq Nurs grad or instr consent;
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

NURS 5224 Clinical Pharmacotherapeutics
3 credit(s); prereq Nursing grad student in advanced practice in primary care, physiology course, instr consent;
Instructor: Lichtblau, PhD, Leonard
Description: Student may contact the instructor or department for information.

NURS 5501 Professional Issues in Nurse-Midwifery
S-N only, 1-2 credit(s), max credits 2, 1 repeat allowed;
prereq Nurs grad major, instr consent;
Instructor: Ringdahl, Deborah Rene
Description: Student may contact the instructor or department for information.

NURS 5600 Nursing Topics
1-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: Kubik, Martha Young
Description: Student may contact the instructor or department for information.

NURS 5630 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad nursing major, instr consent;
Instructor: Rowan, Mary M.
Description: Student may contact the instructor or department for information.

NURS 5910 Nurse Anesthesia Care: Patients With Cardiothoracic Problems
A-F only, 2 credit(s); prereq 5222, 5224, 5228, 5901, Phsl 5115;
Instructor: Peterson, Garrett Joel
Description: Student may contact the instructor or department for information.

NURS 5925 Grant Writing and Critique
1 credit(s); prereq Grad student or instr consent;
Instructor: Bliss, PhD, Donna Zimmer
Description: Student may contact the instructor or department for information.

NURS 5940 Contemporary Issues in Nurse Anesthesia
S-N only, 2 credit(s); prereq 5930;
Instructor: Fagerlund, Kathleen A
Description: Student may contact the instructor or department for information.

NURS 5942 Nurse Anesthesia Practicum B
S-N only, 5 credit(s); prereq 5941;
Instructor: Mund, Angela Renae
Description: Student may contact the instructor or department for information.

NURS 6200 Science of Nursing Intervention
A-F only, 3 credit(s); prereq Admission to DNP Program;
Instructor: Treat-Jacobson, PhD, Diane Jean
Description: Student may contact the instructor or department for information.

NURS 7101 DNP Seminar II
S-N only, 4 credit(s); prereq Admission to DNP program;
Instructor: Olson Keller, Linda
Description: Student may contact the instructor or department for information.

NURS 8100 The Discipline of Nursing
3 credit(s); prereq Grad nurs major or instr consent;
Instructor: Monsen, PhD, Karen A
Description: Student may contact the instructor or department for information.

NURS 8116 Clinical Decision Support: Theory and Application
A-F only, 3 credit(s); prereq 5115 or [HINF 5430, HINF 5431] or instr consent;
Instructor: Clancy, Thomas R
Description: Student may contact the instructor or department for information.

NURS 8134 Interventions and Outcomes Research
A-F only, 3 credit(s); prereq 8121, PhD student, instr consent;
Instructor: Henly, Susan J S
Description: Student may contact the instructor or department for information.

NURS 8140 Moral and Ethical Positions in Nursing
3 credit(s); prereq Grad nurs major or instr consent;
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

NURS 8170 Research in Nursing
3 credit(s); prereq concurrent enrollment 8170 or inferential stat course taken within two yrs;
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

NURS 8171 Qualitative Research Design and Methods
3-4 credit(s), max credits 4, 1 repeat allowed; prereq 8170 or equiv;
Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8173 Principles and Methods of Implementing Research
3 credit(s); prereq 8114 or other 8xxx grad research methods course, 2 grad stat courses; Credit will not be granted if credit has been received for: SAPH 8173;
Instructor: Gross, Cynthia R
Description: Student may contact the instructor or department for information.

NURS 8181 Protection of Research Subjects
1 credit(s); prereq [PhD student or instr consent], [Responsible Conduct of Research I, RCR II] or NIH Web-based course equiv or concurrent;
Instructor: Bearinger, Linda Holm
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 8182</td>
<td>Policy Implications of Nursing Research</td>
<td>S-N only, 1 credit(s); prerequisite: Nursing doctoral student or instructor</td>
<td>Kesler,Melissa D</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>NURS 8190</td>
<td>Critical Review in Health Research</td>
<td>A-F only, 2 credit(s); prerequisite: Advanced statistics course, instructor</td>
<td>Chlan,Linda Lee</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8194</td>
<td>Problems in Nursing - Plan B</td>
<td>S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prerequisite:</td>
<td>Halcon,Ph.D.Linda Luciente</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8194</td>
<td>Problems in Nursing - Plan B</td>
<td>S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prerequisite:</td>
<td>Duckett,Laura J</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8194</td>
<td>Problems in Nursing - Plan B</td>
<td>S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prerequisite:</td>
<td>Zaccagnini,Mary E</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8242</td>
<td>Population Focused Health Care Delivery Systems</td>
<td>2 credit(s), max credits 3, 1 repeat allowed; prerequisite: AHC grad student</td>
<td>Herrick,Linda Marie</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8314</td>
<td>Intervention Models for Adults/Elders with Chronic Health Conditions</td>
<td>A-F only, 4 credit(s); prerequisite: Zaccagnini,Mary E, 8100, 8140, 8170,</td>
<td>Hanson,Heleen Elizabeth</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8316</td>
<td>Implementing Advanced Practice Roles in Adult Nursing</td>
<td>A-F only, 4-6 credit(s), max credits 6, 1 repeat allowed; prerequisite:</td>
<td>Garcia,Ph.D.Carolyn Marie</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<td>NURS 8321</td>
<td>Advanced Nursing Care of the Elderly I</td>
<td>A-F only, 4-6 credit(s), max credits 6, 1 repeat allowed; prerequisite:</td>
<td>Pung,Laurie Jean</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8323</td>
<td>Advanced Nursing Care of the Elderly (II): For Nurse Practitioners</td>
<td>A-F only, 5-6 credit(s), max credits 6, 1 repeat allowed; prerequisite:</td>
<td>Pung,Laurie Jean</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>NURS 8360</td>
<td>Advanced Clinical Nursing</td>
<td></td>
<td></td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
NURS 8360 Advanced Clinical Nursing
1-4 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-4 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-4 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department
for information.

NURS 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department
for information.

NURS 8601 Interventions for Health of Populations
1-6 credit(s), max credits 6, 1 repeat allowed; prereq Grad
nurs major, instr consent;
Instructor: Edwardson, Sandra R
Description: Student may contact the instructor or department
for information.
3 credit(s); prereq 8040;
Instructor: Findorff, Mary Jocelyn
Description: Student may contact the instructor or department for information.

NURS 8602 Public Health Nursing Intervention Practicum
S-N only, 3 credit(s); prereq 8242, 8601;
Instructor: Findorff, Mary Jocelyn
Description: Student may contact the instructor or department for information.

NURS 8702 Nursing and Health-Care Systems Administration II
A-F only, 4 credit(s); prereq 8701, instr consent;
Instructor: Hansen, Helen Elizabeth
Description: Student may contact the instructor or department for information.

**Nutrition**
225 Food Science & Nutrition Building

NUTR 5622 Vitamin and Mineral Biochemistry
3 credit(s); prereq BioC 3021, Phsl 3051, FSCN 4612;
Instructor: Gallaher, Daniel David
Description: This course focuses on the physiological functions and biochemical actions of vitamins and essential minerals. Topics discussed for each include absorption, transport, storage, metabolic function, reaction mechanism, excretion, and toxicity. Examples of deficiency signs are given extensively. Also considered are interactions among vitamins and essential minerals, approaches to biochemical assessment of status, and dietary requirements. The format is primarily lecture, with in-class discussion. The class is intended for graduate students with an interest in nutrition and undergraduate nutrition science students. Style: 95% Lecture, 5% Student Presentation. Grading: 64% mid exam, 16% final exam, 20% reports/papers. Exams are non-cumulative. Exam Format: Exams are essay. They are a combination of short and long answers. Exams are not time-limited.

NUTR 5624 Nutrition and Genetics
A-F only, 2 credit(s); prereq Biochemistry;
Instructor: Peterson, Sabrina
Description: Student may contact the instructor or department for information.

NUTR 8620 Advances in Nutrition
2-3 credit(s), max credits 6, 3 repeats allowed; prereq instr consent;
Instructor: Csallany, A Saari
Description: Student may contact the instructor or department for information.

NUTR 8695 Independent Study: Nutrition
1-10 credit(s), max credits 30, 3 repeats allowed; prereq instr consent;
Instructor: Cariad-Barrett, Anna
Description: Student may contact the instructor or department for information.

**Obstetrics and Gynecology**
12-211 MoosT (Box 395 UMHC)

OBST 8224 Gynecological Endocrinology I
1-15 credit(s), max credits 15, 1 repeat allowed; prereq prereq 8223;
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8225 Gynecological Endocrinology II
1-15 credit(s), max credits 15, 1 repeat allowed; prereq prereq 8224;
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8226 Obstetrical Physiology and Anesthesiology
1-15 credit(s), max credits 15, 1 repeat allowed; prereq prereq 8225;
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8227 Preceptorship in Clinical Practice
1-15 credit(s), max credits 15, 1 repeat allowed; prereq prereq 8226;
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8240 Human Gametes and Fertilization
3 credit(s);
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8241 Human Gametes and Fertilization Laboratory
2 credit(s);
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8243 Topics in Family Planning
2-8 credit(s), max credits 12;
Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

**Occupational Therapy**
271 Children’s Rehabilitation Center (Box 388 UMHC)

OT 1003 Orientation to Occupational Therapy
S-N only, 1 credit(s);
Instructor: Jacobs, Cindy Lou
Description: This course is designed to help you decide whether a career in occupational therapy is the right choice for you. In this course, you will learn what occupational therapy is and how occupational therapists use activity as a treatment modality. The lessons will describe some of the treatment settings in which you might work as an occupational therapist. This course is required if you wish to apply to the master's program in occupational therapy at the University of Minnesota. Style: 100% Web Based. Grading: 54% final exam, 16% quizzes, 30% written homework. S/N

OT 5395 Independent Study in Occupational Therapy
1-4 credit(s), max credits 16, 16 repeats allowed; prereq Enrolled OT student or instr consent;
Instructor: Martin PhD, Peggy Mae
Description: Student may contact the instructor or department for information.

OT 6200 Public and Professional Engagement II
S-N only, 0.5 credit(s), max credits 1.5, 3 repeats allowed; prereq 6100 or instr consent;
Instructor: Martin PhD, Peggy Mae
Description: Student may contact the instructor or department for information.
OT 6200 Public and Professional Engagement II  
S-N only, 0.5 credit(s), max credits 1.5, 3 repeats allowed;  
prereq 6100 or instr consent;  
Instructor: Howe, Malia  
Description: Student may contact the instructor or department for information.

OT 6201 Functional Anatomy and Kinesiology  
A-F only, 3 credit(s); prereq OT student or instr consent;  
Instructor: Mathiowetz, PhD, Virgil G  
Description: Student may contact the instructor or department for information.

OT 6202 Occupational Therapy Process for Individuals: Occupation Through Compensation  
A-F only, 5 credit(s); prereq Registered OT student or instr consent;  
Instructor: Jones, Terrianne  
Description: Student may contact the instructor or department for information.

OT 6203 Occupational Therapy Process for Family  
A-F only, 2 credit(s); prereq OT student or instr consent;  
Instructor: Schaber, PhD, Patricia Louise  
Description: This course examines the influence of family systems on health, well-being, and occupational participation of individual members. Five family theories are explored as they inform a family-centered care model of intervention. Assignments include non-standardized OT assessment in families of very young children and of elders with dementia. Course includes conditions related to at-risk families.

OT 6213 Occupational Therapy Process for Individuals: Medical Contexts  
A-F only, 2 credit(s); prereq OT student or instr consent;  
Instructor: Jones, Terrianne  
Description: Student may contact the instructor or department for information.

OT 7201 Scholarly Inquiry in Health Sciences  
A-F only, 4 credit(s); prereq OT student or instr consent;  
Instructor: Mathiowetz, PhD, Virgil G  
Description: Student may contact the instructor or department for information.

OT 7596 Occupational Therapy Level II Fieldwork I  
S-N only, 6 credit(s); prereq Registered OT student or instr consent;  
Instructor: Erickson, MPA, OT/L, Maureen A.  
Description: Student may contact the instructor or department for information.

OT 7696 Occupational Therapy Level II Fieldwork II  
S-N only, 6 credit(s); prereq Registered OT student or instr consent;  
Instructor: Erickson, MPA, OT/L, Maureen A.  
Description: Student may contact the instructor or department for information.

OT 7796 Occupational Therapy Level II Fieldwork III: Optional  
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed;  
prereq Registered OT student or instr consent;  
Instructor: Erickson, MPA, OT/L, Maureen A.  
Description: Student may contact the instructor or department for information.

OT 8300 Research Seminar in Occupational Therapy  
S-N only, 1 credit(s); prereq 5392 or instr consent;  
Instructor: Stern, PhD, Erica Beth  
Description: Student may contact the instructor or department for information.

OT 8310 Research Problems in Occupational Therapy  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [5392, Plan B OT student] or instr consent;  
Instructor: Meyers, Cheryl Ann  
Description: Student may contact the instructor or department for information.

OT 8320 Fieldwork Education in Occupational Therapy I  
S-N only, 1-6 credit(s), max credits 6; prereq Occupational therapy student or instr consent;  
Instructor: Meyers, Cheryl Ann  
Description: Student may contact the instructor or department for information.

OT 8321 Fieldwork Education in Occupational Therapy II  
S-N only, 1-6 credit(s), max credits 6; prereq Occupational therapy student or instr consent;  
Instructor: Meyers, Cheryl Ann  
Description: Student may contact the instructor or department for information.

OT 8322 Fieldwork Education in Occupational Therapy III: Optional  
S-N only, 1-6 credit(s), max credits 6; prereq Occupational therapy student or instr consent;  
Instructor: Meyers, Cheryl Ann  
Description: Student may contact the instructor or department for information.

Off-Campus Study  
220 Johnston Hall

OCS 3550 National Student Exchange: Off-Campus Study  
S-N only, 0 credit(s); prereq dept consent;  
Instructor: STAFF  
Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

Ojibwe  
19 Scott Hall

OJIB 1102 Beginning Ojibwe II  
5 credit(s); prereq 1101; Credit will not be granted if credit has been received for: OJIB 4102;  
Instructor: Jones, Dennis  
Description: Student may contact the instructor or department for information.

OJIB 3104 Intermediate Ojibwe II  
5 credit(s); prereq 1102, 1102, 3103; Credit will not be granted if credit has been received for: OJIB 4104;  
Instructor: Jones, Dennis  
Description: Student may contact the instructor or department for information.

OJIB 4102 Beginning Ojibwe II  
3 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: OJIB 1102;  
Instructor: Jones, Dennis  
Description: Student may contact the instructor or department for information.

OJIB 5109 Advanced Ojibwe Language II  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;  
Instructor: Meyers, Cheryl Ann  
Description: Student may contact the instructor or department for information.
Instructor: Fairbanks, Brendan George  
**Description:** This class will focus on improving overall speaking skills, pronunciation, stress, intonation, and fluency through immersion. Therefore, this class will be delivered in the Ojibwe language. The use of English will usually be restricted to the explanation of difficult concepts. We will continue to focus on grammar patterns, sentence patterns, reduplication, mii-phrases, discourse markers, as well as the VTA paradigm.

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### Operations and Management Sciences  
3-140 CarlsMgmt

**OMS 2550 Business Statistics: Data Sources, Presentation, and Analysis**  
A-F only, 4 credit(s); prereq [Math 1031 or equiv], at least 30 cr credit will not be granted if credit received for: 1550; Credit will not be granted if credit has been received for: OMS 2550H;  
**Instructor:** STAFF  
**Description:** Student may contact the instructor or department for information.

**OMS 3001 Introduction to Operations Management**  
A-F only, 3 credit(s);  
**Instructor:** STAFF  
**Description:** Basic concepts, principles, and techniques for managing manufacturing and service operations. Emphasis on decision making in the operations function of organizations. Quantitative and qualitative methods for improving the management of operations stressed. Management students provided with an appreciation of the operations function of organizations.  
**Style:** 50% Lecture, 30% Discussion, interactive games  
**Grading:** 20% mid exam, 30% final exam, 10% quizzes, 15% class participation, 25% problem solving  
**Exam Format:** multiple choice, short answer, problem solving

**OMS 3045 Sourcing and Supply Management**  
A-F only, 2 credit(s);  
**Instructor:** Novitzki, Thomas  
**Description:** Student may contact the instructor or department for information.

**OMS 3056 Operations Planning and Control**  
A-F only, 4 credit(s); prereq 3001 or instr consent;  
**Instructor:** STAFF  
**Description:** Concepts and principles related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Materiel Requirements Planning (MRP), Just-in-Time, and theory of constraints.

**OMS 3059 Quality Management and Lean Six Sigma**  
A-F only, 4 credit(s); prereq 3001 or equiv or instr consent;  
**Instructor:** STAFF  
**Description:** Planning and organizing performance improvement of processes, products, and services; Six Sigma process management systems; quality aspects of product/service design; quality determination cost, customer/vendor relations; process control; quality control; management of improvement process; and organizational assessment of quality. Introduction to concepts relevant to service/manufacturing.

**OMS 4081 Operations Strategy and Technology**  
A-F only, 4 credit(s); prereq 3001;  
**Instructor:** Buslovich, Lev  
**Description:** Student may contact the instructor or department for information.

**OMS 6041 Project Management**

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. **IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule.
Schedule.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

OSUR 8257 Ambulatory General Anesthesia for the Oral and Maxillofacial Surgeon
A-F only, 0-6 credit(s), max credits 6, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8250 Oral and Maxillofacial Surgery Rotation for the Oral and Maxillofacial Surgeon
A-F only, 0-6 credit(s), max credits 6, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8251 Oral and Maxillofacial Surgery Core Curriculum
A-F only, 0-2 credit(s), max credits 2, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8253 Case Presentations and Chief Conferences
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8255 General Surgery Rotation for the Oral and Maxillofacial Surgeon
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8256 Contemporary Anesthesia Literature Review
A-F only, 0-3 credit(s), max credits 3, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8260 Surgical Rounds for the Oral and Maxillofacial Surgeon
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8262 Plastic Surgery Rotation for the Oral and Maxillofacial Surgeon
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 8267 Anesthesia Rotation for the Oral and Maxillofacial Surgeon
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Participation in oral and maxillofacial surgery training program;
Instructor: Hughes,Pamela Jean
Description: Student may contact the instructor or department for information.

Orthodontics

OTHO 7103 Growth & Development
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
Instructor: Beyer,John Paul
Description: Student may contact the instructor or department for information.

OTHO 7113 Diagnosis & Treatment Planning
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Admission to graduate orthodontic program,
Instructor: Vayda,Patricia Macchiarul
Description: Student may contact the instructor or department for information.

OTHO 7203 Clinical Orthodontics
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Admission to graduate orthodontic program,
Instructor: Beyer,John Paul
Description: Student may contact the instructor or department for information.

OTHO 8123 Orthodontic Seminar
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Orthodontic grad student;
Instructor: Pliska DDS,MS,Benjamin T
Description: Student may contact the instructor or department for information.

OTHO 8133 Topics in Orthodontics
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
prereq Orthodontic grad student;
Instructor: Ekim,Lilah Suzan
Description: Student may contact the instructor or department for information.

OTHO 8143 Research in Orthodontics
A-F only, 0-5 credit(s), max credits 5, 1 repeat allowed;
OTOL 5101 Introduction to the Basic Sciences in Otolaryngology I: Ear
A-F only, 2 credit(s); prereq Otolaryngology major or instr consent; Instructor: Anderson, John Harold
Description: Student may contact the instructor or department for information.

OTOL 5102 Introduction to the Basic Sciences in Otolaryngology II: Head and Neck
A-F only, 2 credit(s); prereq Otolaryngology major or instr consent; Instructor: Lassman, Frank M
Description: Student may contact the instructor or department for information.

OTOL 8230 Clinical Otorhinolaryngology
A-F only, 4 credit(s); prereq Grad otol major; Instructor: Yueh, Bevan
Description: Student may contact the instructor or department for information.

OTOL 8231 Surgery of the Ear, Nose, and Throat
A-F only, 3 credit(s); prereq Grad otol major; Instructor: Yueh, Bevan
Description: Student may contact the instructor or department for information.

OTOL 8233 Plastic and Reconstructive Surgery: Head and Neck
A-F only, 1 credit(s); prereq Otol major; Instructor: Hilger, Peter A
Description: Student may contact the instructor or department for information.

OTOL 8234 Anatomy of the Head and Neck and Temporal Bone Dissection
2 credit(s); prereq Grad otol major or instr consent; Instructor: Huang, Tina Chung Ting
Description: Student may contact the instructor or department for information.

OTOL 8237 Endoscopy
A-F only, 1 credit(s), max credits 12, 12 repeats allowed; prereq Grad otol major; Instructor: Rimell, Frank L
Description: Student may contact the instructor or department for information.

OTOL 8239 Otoneurology
1-2 credit(s), max credits 12, 12 repeats allowed; prereq Grad otol major or instr consent; Instructor: Anderson, John Harold
Description: Student may contact the instructor or department for information.

OTOL 8240 Allergy
A-F only, 1 credit(s), max credits 12, 12 repeats allowed; prereq Grad otol major; Instructor: Boyer MD, Holly C
Description: Student may contact the instructor or department for information.

OTOL 8241 Cancer of the Head and Neck
A-F only, 1 credit(s), max credits 12, 12 repeats allowed; prereq Grad otol major; Instructor: Yueh, Bevan
Description: Student may contact the instructor or department for information.

OTOL 8242 Audiology and Speech Pathology
2 credit(s); prereq Grad otol major or instr consent; Instructor: Michael, Deirdre D.
Description: Student may contact the instructor or department for information.

OTOL 8243 Introduction to Research Methodology
1 credit(s); prereq Grad otol major or instr consent; Instructor: Daly, Kathleen A
Description: Student may contact the instructor or department for information.

OTOL 8244 Seminar: Current Literature
1 credit(s); prereq Grad otol major or instr consent; Instructor: Lin, Jizhen
Description: Student may contact the instructor or department for information.

OTOL 8248 Directed Readings in Auditory Physiology
1-2 credit(s), max credits 2, 1 repeat allowed; prereq instr consent; Credit will not be granted if credit has been received for: NSC 8248; Instructor: Anderson, John Harold
Description: Student may contact the instructor or department for information.

OTOL 8250 Advanced Biochemistry of the Auditory System
1 credit(s); prereq MdBc 6100, MdBc 6101 or equiv or instr consent; Instructor: John, Steven Kung
Description: Student may contact the instructor or department for information.

OTOL 8262 Advanced Clinical Audiology
2 credit(s); prereq Grad otol major, 8242 or instr consent; Instructor: Margolis, Robert H
Description: Student may contact the instructor or department for information.

Pediatric Dentistry

PDEN 7000 Advanced Pediatric Dentistry for Postgraduate Dental Fellows
S-N only, 1 credit(s); Instructor: Grothe, Ronald L.
Description: Student may contact the instructor or department for information.

PDEN 7100 Advanced Clinical Pediatric Dentistry Techniques
A-F only, 1-5 credit(s), max credits 5, 1 repeat allowed; Instructor: Grothe, Ronald L.
Description: Student may contact the instructor or department for information.

PDEN 7200 Advanced Pediatric Dentistry Techniques
A-F only, 3 credit(s); Instructor: Grothe, Ronald L.
Description: Description of and exercises in advanced pediatric dentistry skills and techniques.

PDEN 8010 Pediatric Dentistry and Treatment Planning
A-F only, 1 credit(s); Instructor: Grothe, Ronald L.
Description: Student may contact the instructor or department for information.
PDEN 8031 Independent Pediatric Dentistry Study  
2 credit(s);  
Instructor: Grothe, Ronald L.  
Description: Student may contact the instructor or department for information.

PDEN 8100 Hospital Pediatric Dentistry I  
S-N only, 1 credit(s);  
Instructor: Grothe, Ronald L.  
Description: Student may contact the instructor or department for information.

PDEN 8110 Hospital Pediatric Dentistry II  
S-N only, 3 credit(s);  
Instructor: Grothe, Ronald L.  
Description: Student may contact the instructor or department for information.

PED 6121 Conflict, Anger, Aggression, Violence  
A-F only, 2 credit(s); prereq Ped 6121/PubH 6121;  
Instructor: Potegal, Michael  
Description: Student may contact the instructor or department for information.

PERS 1102 Beginning Persian II  
5 credit(s); prereq 1101; Credit will not be granted if credit has been received for: PERS 4102;  
Instructor: Sadrai, Mahmoud  
Description: Student may contact the instructor or department for information.

PERS 3102 Intermediate Persian II  
5 credit(s); prereq 3101 or instr consent ; Credit will not be granted if credit has been received for: PERS 4104;  
Instructor: Sadrai, Mahmoud  
Description: Student may contact the instructor or department for information.

PERS 4102 Beginning Persian II  
3 credit(s); prereq 4101, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: PERS 1102;  
Instructor: Sadrai, Mahmoud  
Description: Student may contact the instructor or department for information.

PERS 4104 Intermediate Persian II  
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: PERS 3102;  
Instructor: Sadrai, Mahmoud  
Description: Student may contact the instructor or department for information.

PHM 8100 Seminar: Pharmaceutics  
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;  
Instructor: Zimmerman, Cheryl L  
Description: Student may contact the instructor or department for information.

PHM 8110 Readings in Pharmaceutics  
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;  
Instructor: Suryanarayanan, Raj  
Description: Student may contact the instructor or department for information.

PHM 8110 Readings in Pharmaceutics  
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;  
Instructor: Schroeder, Henning  
Description: Student may contact the instructor or department for information.

PHM 8120 Readings in Central Nervous System (CNS) Drug Delivery  
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;  
Instructor: Fairbanks, Carolyn Ann  
Description: Student may contact the instructor or department for information.

PHM 8150 Pharmacokinetics Research Seminar  
S-N only, 1 credit(s), max credits 12, 12 repeats allowed;  
Instructor: Zimmerman, Cheryl L  
Description: Student may contact the instructor or department for information.

PHLCL 3100 Pharmacology for Pre-Med and Life Science  
A-F only, 2 credit(s); prereq College-level biology; biochemistry or physiology recommended;  
Instructor: Wei, Li-Na  
Description: This introductory course in modern pharmacology is suitable for students interested in clinical medicine, biological science research, pharmaceutical industry and development of modern therapeutic agents -- or those just wanting a taste of how drugs work. The emphasis will be on the big picture of "therapeutic drugs" in general, and to prepare students for future success in modern medicine, research, industry, or matriculation to health science programs. This course covers different drug categories for major organ systems including the nervous systems, the cardiovascular system, and the endocrine/reproductive systems, as well as drugs for conditions like cancers and infectious and inflammatory diseases. The course will also briefly introduce concepts in modern drug design such as gene and cell therapy and application of pharmacogenomics. Text: "PHARMACOLOGY Condensed," Dale and Haylett, Fifth Edition, Churchill Livingstone (2004)  
Additional Info: Please contact course directors directly or visit the website: Class URL:  
http://www.pharmacology.med.umn.edu/PHCL3100.html

PHCL 5103 Pharmacology for Dental Students  
3 credit(s); prereq enrolled dental student or instr consent;  
Instructor: Romero, Daniel Patrick  
Description: Student may contact the instructor or department for information.

PHCL 5109 Problems in Pharmacology  
1-18 credit(s), max credits 18, 1 repeat allowed;  
Instructor: Loh, Horace H  
Description: Student may contact the instructor or department for information.
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Spring 2009

PHCL 5111 Pharmacoeconomics  
A-F only, 3 credit(s); prereq Grad student or instr consent;  
Instructor: Campbell, Colin R  
Description: Student may contact the instructor or department for information.

PHCL 5112 A Graduate Student Toolkit: Scientific Speaking, Grant Writing, and Responsible Conduct of Research  
A-F only, 2 credit(s); prereq instr consent;  
Instructor: Law, Ping-Yee  
Description: Student may contact the instructor or department for information.

PHCL 5212 Pharmacology  
A-F only, 3 credit(s); prereq 5211 or instr consent;  
Instructor: Thayer, Stanley A  
Description: Student may contact the instructor or department for information.

PHCL 5462 Neuroscience Principles of Drug Abuse  
2 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: NSC 5462;  
Instructor: Seybold, PhD, Virginia S  
Description: Student may contact the instructor or department for information.

PHCL 8110 Advanced Pharmacology  
A-F only, 4 credit(s); prereq 5110 or instr consent;  
Instructor: Loh, Horace H  
Description: Student may contact the instructor or department for information.

PHCL 8216 Signal Transduction and Gene Expression  
3 credit(s); prereq BIOC 8002 or instr consent;  
Instructor: Kim, Do-Hyung  
Description: The PHCL8216 is a graduate-level course focused on mechanisms of cellular signal transduction. This course emphasizes intensive discussion in class on focused, selected topics. This year, the theme of the course is "insulin signaling, metabolism, and ageing". Except some introductory class as well as some lectures given by invited speakers, the class will discuss topics focused on the theme above. The course will have a couple of class to discuss about the basic principles of signal transduction, briefly introducing several well-characterized cell signaling pathways and important, useful experimental approaches to study signal transduction. The first two weeks will be given for lectures on general introduction on signal transduction. After that, we will discuss several specific topics on cell signaling based on literatures pertaining to the theme above. A general structure is that a lecture will be given for one day general introduction on a specific cell signaling topic, which will be followed by discussion based on literature that will be assigned by each lecturer. Through employing this structure, the course will help expose students to basic, broad, and current knowledge on cell signaling mechanisms and their impacts on human diseases, and to experimental approaches on cell signaling studies. The course will require each student to submit a two-page concise proposal, and at the end of the course students will present their proposal. We will not have exams, and the grade will be based on the proposal, presentation, and attendance. For further inquiry, please email dhkim@umn.edu

PHAR 1001 Orientation to Pharmacy  
2 credit(s);  
Instructor: Pittenger, Amy Louise  
Description: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted. This online, unlimited enrollment course has no prerequisites. The course is designed for those interested in pharmacy as a potential career or those just curious about the profession. Topics include the need for pharmacists, settings where pharmacists work, pharmacy, health care trends and pharmacy education. There is no textbook for this course. Students use Vista to: view audio-narrated powerpoint presentations, download handout materials, take virtual tours, and review optional resources. A mandatory course orientation is provided during the first week. Course information is sent to registered students of U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 10-week Summer term. For more information on this course, explore the course website and/or contact <ahrefs="http://www.pharintr@umn.edu"> or 612-624-7976.  
Style: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.  
Exam Format: Multiple Choice

PHAR 1002 Health Sciences Terminology  
2 credit(s);  
Instructor: Philbrick, Ann M  
Description: This self-study, unlimited enrollment course has no prerequisites. It provides undergraduate students with introductory knowledge of health sciences terminology through a programmed learning approach. Students learn how to analyze and build words by using combining forms, suffixes, and prefixes in a systematic manner. This working knowledge of the medical language serves as a basis for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course orientation is completed entirely online. Course information is sent to registered students of U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.  
Style: Self-study with regularly scheduled in person testing sessions  
Grading: Average of scores for 4 exams and 4 quizzes  
Exam Format: Multiple choice and true/false

PHAR 1003 Non-Prescription Medications and Self-Care: Treating Minor Conditions  
2 credit(s);  
Instructor: Philbrick, Ann M  
Description: This self-study, unlimited enrollment online course for undergraduate and professional students provides information related to nonprescription medications and appropriate self care. Knowledge gained empowers students to become informed consumers of over-the-counter medications and testing devices. Examples of course topics include vitamins, herbal products, pain relievers and cold medications. Students use WebVista to: view audio-narrated presentations and download handout materials (also available for purchase). The required course orientation is completed online. Course information is sent to registered students of U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact selfcare@umn.edu or 612-624-7976.  
Style: Self-study, with regularly scheduled in-person testing sessions  
Grading: Average of 4 exam scores

PHAR 8320 Readings in Neurobiology  
1-4 credit(s), max credits 4, 4 repeats allowed; prereq instr consent;  
Instructor: Fairbanks, Carolyn Ann  
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
PHAR 4200W Drugs and the U.S. Health Care System
A-F only, 3 credit(s); prerequisite: Grad student; Credit will not be granted if credit has been received for: PHAR 5200W;
Instructor: Pittenger, Amy Louise
Description: Phar 4200W Drugs and the US Healthcare System 3 cr, Prereqs: graduate student or permission of instructor
Instructors: Pittenger, PharmD, MS, Amy L. This online course prepares students to be informed and responsible participants in
debates related to medications within the U.S. healthcare system. Medication development, regulation and distribution in
the US are explored, along with the business, political and legal/ethical issues involved. Through weekly reading and writing
assignments, participants identify and substantiate their own stances on issues. Requirements include short writing
assignments (finished writing in the form of postings to a discussion board) each week, self-reflections, and a Final Paper (5 pages) allowing exploration of
issues of interest to you. For more information, see our course website http://courses.pharmacy.umn.edu or contact
rxsystem@umn.edu or 612-624-7976.
Grading: 42% reports/papers, 30% reflection paper, 28% class participation. class participation is defined as discussion board
postings.

PHAR 5200 Drug-related Policy and the U.S. Health Care System
A-F only, 3 credit(s); prerequisite: Grad student; Credit will not be granted if credit has been received for: PHAR 4200W;
Instructor: Pittenger, Amy Louise
Description: Phar 5200 Drugs and the US Healthcare System 3 cr, Prereqs: graduate student or permission of instructor
Instructors: Pittenger, PharmD, MS, Amy L. This online course prepares students to be informed and responsible participants in
debates related to medications within the U.S. healthcare system. Medication development, regulation and distribution in
the US are explored, along with the business, political and legal/ethical issues involved. Through weekly reading and writing
assignments, participants identify and substantiate their own stances on issues. Requirements include short writing
assignments (finished writing in the form of postings to a discussion board) each week, self-reflections, and a Final Paper (5 pages) allowing exploration of
issues of interest to you. For more information, see our course website http://courses.pharmacy.umn.edu or contact
rxsystem@umn.edu or 612-624-7976.
Grading: 42% reports/papers, 30% reflection paper, 28% class participation. class participation is defined as discussion board
postings.

PHAR 5201 Health Sciences Applied Terminology
2 credit(s); prerequisite: Basic knowledge of human anatomy/physiology;
Instructor: Pittenger, Amy Louise
Description: This self-study, unlimited enrollment advanced course for undergraduates and professional students presumes
basic knowledge of human anatomy and physiology. Students learn medical terms as well as how to apply them when
documenting and reporting patient care procedures. Gaining this working knowledge of the medical language serves as a basis
for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course
orientation is completed online. Course information is sent to registered students U of M email addresses shortly before,
and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on
this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.
Style: self-study with regularly scheduled in-person testing sessions.
Grading: 9% quizzes, 91% additional semester exams. Average of scores for 4 exams and 4 quizzes.

PHAR 5700 Applied Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); prerequisite: Medical Terminology and admitted to a graduate program (or permission of instructor)
This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally
online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health
communication/documentation.

PHAR 3700 Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); prerequisite Medical terminology;
Instructor: Pittenger, Amy Louise
Description: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.
This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health
communication/documentation.
Style: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.

PHAR 3800 Pharmacotherapy for the Health Professions
A-F only, 3 credit(s); prerequisite: basic knowledge of human anatomy/physiology;
Instructor: Lounsbery, Jody Leigh
Description: This online course provides enrolled nursing, radiation therapy and respiratory care students with a general understanding of drug therapy and its implications in patient care. (See course website for exact prerequisites for each health professional program.) There is no textbook for this course. Students use Vista to: view audio-narrated powerpoint presentations, download handout materials, complete self tests and cases and take exams. Course information is sent to the U of M email addresses of registered students shortly before, and/or on, the first day of classes each Fall and Spring term. For more information, see our course website or contact
rxsystem@umn.edu or 612-624-7976.
Style: self-study with scheduled in-person testing sessions.
Grading: 20% reports/papers, 30% quizzes, 50% other evaluation. 2 exams
Exam Format: Multiple choice

PHAR 4200W and the U.S. Health Care System
A-F only, 3 credit(s); prerequisite for credit to be granted must have completed online course for undergraduates and professional students presumes
basic knowledge of human anatomy and physiology. Students learn medical terms as well as how to apply them when
documenting and reporting patient care procedures. Gaining this working knowledge of the medical language serves as a basis
for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course
orientation is completed online. Course information is sent to registered students U of M email addresses shortly before,
and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on
this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.
Style: self-study with regularly scheduled in-person testing sessions.
Grading: 9% quizzes, 91% additional semester exams. Average of scores for 4 exams and 4 quizzes.

PHAR 5700 Applied Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); prerequisite: Medical Terminology and admitted to a graduate program (or permission of instructor)
This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally
online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health
communication/documentation.

PHAR 3700 Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); prerequisite Medical terminology;
Instructor: Pittenger, Amy Louise
Description: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.
This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health communication/documentation.
Style: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.

PHAR 3800 Pharmacotherapy for the Health Professions
A-F only, 3 credit(s); prerequisite Basic knowledge of human anatomy/physiology;
Instructor: Lounsbery, Jody Leigh
Description: This online course provides enrolled nursing, radiation therapy and respiratory care students with a general understanding of drug therapy and its implications in patient care. (See course website for exact prerequisites for each health professional program.) There is no textbook for this course. Students use Vista to: view audio-narrated powerpoint presentations, download handout materials, complete self tests and cases and take exams. Course information is sent to the U of M email addresses of registered students shortly before, and/or on, the first day of classes each Fall and Spring term. For more information, see our course website or contact
rxsystem@umn.edu or 612-624-7976.
Style: self-study with scheduled in-person testing sessions.
Grading: 20% reports/papers, 30% quizzes, 50% other evaluation. 2 exams
Exam Format: Multiple choice
PHIL 1001 Introduction to Logic
Description: Have you ever heard an argument that you knew wasn’t any good, but you didn’t have the tools you needed to show what was wrong with it? This course will give you those tools. We will look at many different kinds of arguments and we will identify the patterns of good and bad arguments. You will learn a method for describing and analyzing these patterns so that you will be able to evaluate even very complicated arguments in a straightforward way. Armed with these abilities you will be able to diagnose the problems with faulty arguments and you will be better equipped to come up with excellent arguments of your own. Your writing will become clearer, better argued, and more forceful. And most of all, your will become a clearer and more reasonable thinker. Logic cannot teach you what to think, but it will teach you how to think, and thinking logically is a crucial skill for you as a student and a citizen.

PHIL 1002V Honors: Introduction to Philosophy
Description: Student may contact the instructor or department for information.

PHIL 1002W Introduction to Philosophy
Description: Student may contact the instructor or department for information.

PHIL 1002W Introduction to Philosophy
Description: Student may contact the instructor or department for information.

PHIL 1003W Introduction to Ethics
Description: Student may contact the instructor or department for information.

PHIL 1004W Introduction to Political Philosophy
Description: Student may contact the instructor or department for information.

PHIL 1006W Philosophy and Cultural Diversity
Description: Student may contact the instructor or department for information.

PHIL 1905 Topics: Freshman Seminar: Comics as Art
Description: Student may contact the instructor or department for information.

PHIL 3005W General History of Western Philosophy: Modern Period
Description: This course examines the metaphysics, epistemology, and politics of eight philosophies of Europe of the 16th, 17th, and 18th centuries, those of Descartes, Malebranche, Spinoza, Locke, Berkeley, Hume, Wollstonecraft, and Kant. We will consider the economic, religious, cultural (especially scientific), and political antecedents of the philosophies, the audience and language of the texts, and the Western European social transformations of the time the philosophies informed. The course satisfies an arts and humanities diversified core requirement and is writing intensive. All interested students are welcome.
PHIL 3231 Philosophy and Language

4 credit(s);
Instructor: Hanks, Peter William

Description: This course will be an introduction to philosophical reflection on the nature of language and the relation between language and thought. We will investigate questions like: What is a language? Are languages social objects? Must one have a language in order to think? Do non-linguistic animals have thoughts? What makes a word mean what it does, e.g. what makes the word 'plus' mean addition? Readings will include classic and contemporary texts by writers such as Noam Chomsky, John Searle, Hilary Putnam, Stephen Pinker, Saul Kripke, and others. Students will write a number of expository or argumentative papers in which they develop their skills using philosophical methods and concepts. They will also learn about how philosophical approaches to language differ from those of linguistics and psychology.

Style: 70% Lecture, 30% Discussion.
Grading: 40% final exam, 60% other evaluation. 3 5-page papers: 20% each
Exam Format: Short answer

PHIL 3302W Moral Problems of Contemporary Society

4 credit(s); Credit will not be granted if credit has been received for: PHIL 3322W;
meets CLE req of Citizenship/Publ Ethics Theme;
meets CLE req of Other Humanities Core;
meets CLE req of Writing Intensive;
Instructor: Bix, Brian H

Description: From the major public issues like terrorism, abortion, and capital punishment, to the more personal and day-to-day matters relating to lying, vegetarianism, and sexual morality, ethical questions pervade our lives. This course will investigate the various approaches to ethical questions, and analyze, rigorously, the arguments on both sides of a large variety of contemporary moral problems. The course will include two analysis and advocacy papers (one of which students will have to revise after receiving comments), and a closed book, final essay examination. All readings will be from texts available on-line. On the positive side, this means that no course-books need to be purchased. On the negative side, this means that students should not take this course unless they have regular access to a computer and the Internet (and can either read the articles on-line, or can print them out).

Style: 80% Lecture, 20% Discussion.
Grading: 40% final exam, 60% reports/papers.
Exam Format: essay (closed book)

PHIL 3311W Introduction to Ethical Theory

4 credit(s); Meets CLE req of Writing Intensive;
Instructor: STAFF

Description: This course offers an introduction to ethical theory by way of a detailed examination of contemporary virtue ethics. We will begin with the very general question of what ethical theory is meant to be a theory of, in order to examine how different philosophical assumptions (consequentialist, deontological, and virtue-theoretic) emphasize different aspects of the ethical domain. We will then consider how a virtue-theoretic approach addresses some central topics in ethical theory - among them right action, moral judgment, moral motivation, moral education, and moral responsibility. In the process we will attend to whether (and, if so, how) virtue ethics differs from modern consequentialism and deontology and whether virtue ethics can be improved with the addition of some further philosophical assumptions. This course will be taught by Professor Liam Monahan.

Style: 66% Lecture, 34% Discussion.
Grading: 80% reports/papers, 20% other evaluation.
presentation, informal writing, and presentations

PHIL 3502W Introduction to Aesthetics

3 credit(s), max credits 4, 1 repeat allowed; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Shin, Hyun Joo

Description: Student may contact the instructor or department for information.

PHIL 3601W Scientific Thought

4 credit(s); prereq One course in philosophy or natural science; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Nouou, Antigone M.

Description: One may say that on one level there is nature. On another, there are scientists studying nature. On yet another, there are Science Studies folk, philosophers, historians and sociologists of science, who study scientists studying nature. The Science Studies folk try to understand and explain, on one the hand, how science and technology came to be dominant forces in modern society, and, on the other, how society affects the scientific enterprise. Science and its applications, which are regarded by many as the foremost achievements of human intellect, play a leading role in modern society ever since the 17th century scientific revolution. Technological applications have obvious and major effects on our everyday life, while scientific thought has a major impact, probably less conspicuous yet equally, if not more, important, on our views of nature, of the place of humankind in it, and of knowledge as distinct from belief. At the same time, the societies in which scientists live and work affect their scientific inquiry in both obvious and subtle ways. In this course we will investigate the nature of scientific thought, we will explore its influence on society, and we will touch on the impact of society on science using studies of historians and philosophers of science. Our journey will span four centuries of scientific activity, from the 17th century scientific revolution, to the 19th century Darwinian revolution, to the 20th century revolution in physics, molecular biology and painting!

Style: 75% Lecture, 25% Discussion.
Grading: 77% reports/papers, 23% quizzes.

PHIL 3607 Philosophy of Psychology

4 credit(s); prereq One course in philosophy or psychology;
Instructor: Owens, Joseph I

Description: Mental phenomena present the philosopher with a number of deep but inescapable challenges. We tend to suppose that we know what it is to have a mind, to have beliefs, desires, etc., All of this is surely amazing; indeed it verges on the outrageous. We admit to not knowing the makeup of the simplest structures, to not knowing how to explain the behavior of the simplest organisms--we leave such issues to scientific investigators--and at the same time we think we know how to explain the behavior of this most complex of systems; we know how to do it, and we know what we are talking about when we explain behavior by citing the relevant beliefs, desires, etc. Strange indeed. We start our investigation with a brief look at Descartes, who is usually supposed to have expressed our shared intuitive conception of mind. For our purposes, Descartes' vision is best viewed as posing the central problems rather than answering them. The body of the course is then taken up with investigating current and recent theories of mind and psychology. Special attention will be given to cognitive psychology and artificial intelligence approaches--contemporary theories that attempt to understand intelligent systems as programmed systems.

Style: 75% Lecture, 25% Discussion.
Grading: 100% reports/papers.

PHIL 3993 Directed Studies

1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF

Description: Students may contact the instructor or department for information.

PHIL 4010 Ancient Philosophers

3 credit(s), max credits 6; prereq 3001 or instr consent ;
Instructor: Poe, J. Scott

Exam Format: take-home essay exams; two three-page essays per midsemester exam; three three-page essays for final
PHIL 4605 Space and Time
3 credit(s); prereq Courses in [philosophy or physics] or instr consent; Credit will not be granted if credit has been received for: PHIL 5605;
Instructor: Nounou, Antigone M.
Description: Is space a substance or does it suffice to speak of spatial relations between physical objects? Newton and Leibniz actually held opposing views and put forth ingenious arguments to support them, but neither managed to convince the other. Some four hundred years later, and despite the fact that space and time have merged into spacetime, as required by modern physics, one important question that philosophers and scientists still ask is whether spacetime is a substance or whether it suffices to speak about spatiotemporal relations between physical objects or events. Probably there isn’t a definite answer to this question either, yet by attempting to answer it physicists and philosophers probed deeply into the theories involved and their interpretations, and got extremely interesting insights and views, some of which we will try to explore in this course.
Style: 75% Lecture, 25% Discussion.
Grading: 10% quizzes, 25% attendance, 65% reflection paper.

PHIL 4607 Philosophy of the Biological Sciences
3 credit(s); prereq Courses in [philosophy or biology] or instr consent;
Instructor: Waters, C. Kenneth
Description: Student may contact the instructor or department for information.

PHIL 4622 Philosophy and Feminist Theory
3 credit(s); prereq 5 crs in [philosophy or women's studies] or instr consent; Credit will not be granted if credit has been received for: GWSS 4122;
Instructor: Scheman, Naomi
Description: This course explores questions of realism and objectivity, specifically concerning identity, by bringing together three (overlapping) lines of theorizing: work in literary theory under the heading of ?post-positivist realism,? critical race theory, and Wittgensteinian feminist theory. The genesis for the course was my discovery that a paper of mine from the 1970? had provided a central example for a 1993 paper of Satya Mohan?ts that is the germinal work in post-positivist realism. A 2000 collection of papers articulating that position is one of the core texts for our class, along with some of the work that (totally independently) I have been doing in the 30 years since my original paper, and some of the work (in philosophy and critical race theory) that has influenced me. My hope is that this triangulation will shed light on a central issue in philosophy and feminist theory, namely, how to make sense of truth claims (especially those that seem to be needed for effective political critique and activism) without appeal to problematically foundationalist metaphysics and epistemology.
Style: 40% Lecture, 60% Discussion.
Grading: 55% reports/papers, 45% reflection paper. web and in-class participation can improve one's grade
Exam Format: N/A

PHIL 4993 Directed Studies
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

PHIL 5202 Symbolic Logic II
4 credit(s); prereq 5201 or instr consent;
Instructor: Cook, Roy Thomas
Description: Student may contact the instructor or department for information.

PHIL 5222 Philosophy of Mathematics
3 credit(s); prereq College level logic or mathematics course or instr consent;
Instructor: Hellman, Geoffrey
Description: Fundamental issues and leading traditions in philosophy of mathematics will be presented. What, if anything, is mathematics about? What is mathematical truth? How are axioms justified, especially involving the infinite? Approaches and related issues to be considered include: classical (platonist) logicism of Frege and Russell, the structuralist perspective of Dedekind, conventionalist logicism of Carnap, elements of intuitionism, Hilbert's program, the impact of Godel's incompleteness theorems, and a glimpse at some leading contemporary developments, especially concerning structuralism. Prerequisites: A course in symbolic logic (through completeness of first-order logic), or a course in college-level mathematics (e.g. calculus, real analysis, algebra, intro to foundations, etc.)
Style: 75% Lecture, 25% Discussion.
Grading: 40% mid exam, 40% final exam, 20% class participation.
Exam Format: take-home questions, essay type

PHIL 5415 Philosophy of Law
3 credit(s); prereq 1003 or 1004 or 3302 or social science major or instr consent;
Instructor: Bix, Brian H
Description: The course will offer an overview of a wide variety of topics in legal philosophy, from issues in analytical philosophy (e.g., regarding the nature of law, the requirements of justice, and whether there is a moral obligation to obey the law) to modern critical schools (e.g., law and economics, critical race theory, legal realism, and feminist legal theory). The course is aimed at graduate philosophy students and law students, though other graduate students and undergraduates willing and able to work at a graduate student level are welcome. The readings come mostly from articles available on-line, supplemented by one short overview book. Course grades are based primarily on one term paper and one (closed book) final essay exam.
Style: 70% Lecture, 30% Discussion.
Grading: 45% final exam, 45% reports/papers, 10% class participation.
Exam Format: essay (closed book)

PHIL 5505 Space and Time
3 credit(s); prereq Courses in [philosophy or physics] or instr consent; Credit will not be granted if credit has been received for: PHIL 4605;
Instructor: Nounou, Antigone M.
Description: Is space a substance or does it suffice to speak of spatial relations between physical objects? Newton and Leibniz actually held opposing views and put forth ingenious arguments to support them, but neither managed to convince the other. Some four hundred years later, and despite the fact that space and time have merged into spacetime, as required by modern physics, one important question that philosophers and scientists still ask is whether spacetime is a substance or whether it suffices to speak about spatiotemporal relations between physical objects or events. Probably there isn’t a definite answer to this question either, yet by attempting to answer it physicists and philosophers probed deeply into the theories involved and their interpretations, and got extremely interesting insights and views, some of which we will try to explore in this course.
Style: 75% Lecture, 25% Discussion.

PHIL 5605 Space and Time
3 credit(s); prereq Courses in [philosophy or physics] or instr consent; Credit will not be granted if credit has been received for: PHIL 4605;
Instructor: Nounou, Antigone M.
Description: Is space a substance or does it suffice to speak of spatial relations between physical objects? Newton and Leibniz actually held opposing views and put forth ingenious arguments to support them, but neither managed to convince the other. Some four hundred years later, and despite the fact that space and time have merged into spacetime, as required by modern physics, one important question that philosophers and scientists still ask is whether spacetime is a substance or whether it suffices to speak about spatiotemporal relations between physical objects or events. Probably there isn’t a definite answer to this question either, yet by attempting to answer it physicists and philosophers probed deeply into the theories involved and their interpretations, and got extremely interesting insights and views, some of which we will try to explore in this course.
Style: 75% Lecture, 25% Discussion.

PHIL 5622 Philosophy and Feminist Theory
3 credit(s); prereq 8 crs in [philosophy or women's studies] or instr consent; Credit will not be granted if credit has been received for: PHIL 4622;
Instructor: Scheman, Naomi
Description: This course explores questions of realism and objectivity, specifically concerning identity, by bringing together three (overlapping) lines of theorizing: work in literary theory under the heading of ?post-positivist realism,? critical race theory, and Wittgensteinian feminist theory. The genesis for the course was my discovery that a paper of mine from the 1970s? had provided a central example for a 1993 paper of Satya Mohanty?s that is the germinal work in post-positivist realism. A 2000 collection of papers articulating that position is one of the core texts for our class, along with some of the work that (totally independently) I have been doing in the 30 years since my original paper, and some of the work (in philosophy and critical race theory) that has influenced me. My hope is that this triangulation will shed light on a central issue in philosophy and feminist theory, namely, how to make sense of truth claims (especially those that seem to be needed for effective political critique and activism) without appeal to problematically foundationalist metaphysics and epistemology.
Style: 40% Lecture, 60% Discussion.
Grading: 55% reports/papers, 45% reflection paper. web and in-class participation can improve one's grade
Exam Format: N/A

PHIL 5993 Directed Studies
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

PHIL 8420 Seminar: Political Philosophy
3 credit(s), max credits 6; prereq 4321 or 4414 or instr consent;
Instructor: Holtman, Sarah William
Description: Student may contact the instructor or department for information.

PHIL 8510 Seminar: Aesthetics Studies
3 credit(s), max credits 6;
Instructor: Kac, Michael B
Description: Student may contact the instructor or department for information.

PHIL 8670 Seminar: Philosophy of Science
3 credit(s), max credits 6; prereq instr consent;
Instructor: Waters, C. Kenneth
Description: Student may contact the instructor or department for information.

Physical Education
220 Cooke Hall

PE 1004 Diving: Springboard
OPT No Aud, 1 credit(s); prereq 1007 or equiv or instr consent;
Instructor: Zagaria, Jim
Description: Fundamentals of diving. Proper mechanics/techniques to ensure safety. Technical/numerical aspects. Lecture, participatory testing.

PE 1007 Beginning Swimming
OPT No Aud, 1 credit(s);
Instructor: Novotny, Jessica Lynn
Description: Student may contact the instructor or department for information.

PE 1007 Beginning Swimming
OPT No Aud, 1 credit(s);
Instructor: Porter, Ayanna
Description: Student may contact the instructor or department for information.

PE 1012 Beginning Running
OPT No Aud, 1 credit(s);
Instructor: Eaton, Lois M

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Popp, Kristy L
Description: Student may contact the instructor or department for information.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Holtman, Sarah William
Description: Student may contact the instructor or department for information.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Kipp, Lindsay Erin
Description: Student may contact the instructor or department for information.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Krings, Amanda R
Description: Student may contact the instructor or department for information.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Popp, Kristy L
Description: Student may contact the instructor or department for information.

PE 1016 Posture and Individual Exercise
OPT No Aud, 1 credit(s);
Instructor: Lemler, Lisa Lynn
Description: Good posture techniques, individual exercises, fitness concepts, and mental techniques. Specific overall sound body and mind techniques to include flexibility exercises, cardiovascular fitness, resistance training, nutrition management, weight control, stress management, and self-thought.

PE 1029 Handball
OPT No Aud, 1 credit(s);
Instructor: Hiber, Matthew Frank
Description: This course has been designed as an introductory level activity program for handball players. Its intent is to familiarize students with the rules of handball and teach the fundamental skills of this challenging sport. Daily activities will focus on entry-level drills, playing games, and learning appropriate handball etiquette. Students will be expected to purchase handball gloves, handballs, and protective eyewear. There will be a $35 equipment fee.
Style: 10% Lecture. skills and activities
Grading: 10% mid exam, 10% final exam, 80% class participation.
Exam Format: One T/F test and one short answer test
Description: Hand and eye coordination, footwork in practice and game conditions, and skills and strategies of service and rally for the court sport handball (four-wall version). Novice to intermediate levels of play accommodated.

PE 1031 Sabre Fencing
OPT No Aud, 1 credit(s);
Instructor: Sobalvarro, J Roberto
Description: Basic sabre techniques, movement, an overview of fencing as a recreational sport and an Olympic sport, and the history of fencing.

PE 1032 Badminton
OPT No Aud, 1 credit(s);
Instructor: Decano, Policarpio Augustine
Description: Student may contact the instructor or department for information.

PE 1033 Foil Fencing
OPT No Aud, 1 credit(s);
Instructor: Sobalvarro, J Roberto
Description: Fencing fundamentals, including basic foil techniques, movement, a general overview of fencing as a recreational sport and an Olympic sport, and the history of fencing.

PE 1034 Judo
OPT No Aud, 1 credit(s);
Instructor: Crone, Tom
Description: The judo class instructs students in the basic skills of throwing, grappling (matwork), choking and arm lock techniques, and falling skills. These are the basic skills used in contest judo, and also have personal defense application of a very realistic and practical nature. Students are also given an appreciation of the evolution of judo from Jiu-Jitsu, and they learn the fundamental rules and scoring of contest. Action videos are used both for instruction of techniques and appreciation of contests. The principles of judo and its philosophy as they apply to daily life enhancement, are also covered.
Style: 5% Lecture, 5% Discussion. Physical instruction of judo techniques and skill application.
Grading: 15% mid exam, 20% final exam, 65% class participation.
Exam Format: Matching, multiple choice, true/false

PE 1035 Karate
OPT No Aud, 1 credit(s);
Instructor: Fusaro, Robert L
Description: This course will introduce the student to Japanese Shotokan Karate (traditional karate); a style of karate that is natural and functional. Students will learn proper posture and methods to develop power and control utilizing feet, legs, and hips. The principal of body dynamics, which Shotokan Karate is noted for, will enable a person of 100 pounds or less to develop power capable of defending themselves against a person of greater size and weight. Shotokan Karate is a non-contact martial art in which no protective gear or gloves of any type is worn. Therefore, control is essential. Men, women, and children can participate in this exhilarating martial art without fearing for their well-being. Structural foundation is essential for developing a delivery system for blocking, kicking, and punching, techniques which are basic elements of self-defense. These movements will be reviewed throughout the entire semester. A portion of the latter half of the course will be devoted to application of these basic techniques. Purchase of GI uniform is encouraged; GI uniform is available through the instructor at a cost of $35.
Style: 15% Discussion. training; 5% exams
Grading: 20% mid exam, 70% final exam, 10% other evaluation.
Attendance
Exam Format: Mid-term: 20 short multiple choice questions; Final: physical test on basic movements worked on during the semester

PE 1036 Racquetball
OPT No Aud, 1 credit(s);
Instructor: Johnson, Matthew Lloyd
Description: Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.

PE 1036 Racquetball
OPT No Aud, 1 credit(s);
Instructor: Hoffman, Mitchell Lee
Description: Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.

PE 1037 Squash Racquets
OPT No Aud, 1 credit(s);
Instructor: Stever, John Ball
Description: This course has been designed as an introductory-level activity program for novice squash players. Its intent is to familiarize the individual with the play, rules, equipment, and courts of the game. Weekly lessons will focus on entry-level technique as well as safety on and around the court. Upon completion of this course, students will: 1) have learned the mechanics of the basic squash strokes; 2) understand positioning and movement on the court; 3) understand and apply the international rules for play; 4) be able to describe the basic dimensions and markings of an international squash racket court; and 5) be able to select and care for equipment. The texts for the course include the well-illustrated Squash: Steps to Success by Yarrow (1997), and the "International Squash Rules" as published by the World Squash Association on the Internet.
Style: 15% Lecture, 10% Film/Video. 75% on court for drills and games. Much of lecture is also on court.
Grading: 20% mid exam, 20% attendance, 60% other evaluation. On court evaluation of improvement on basic techniques
Exam Format: Multiple choice, T/F

PE 1038 Beginning Tennis
OPT No Aud, 1 credit(s);
Instructor: Kneisl, Gerald Vernon
Description: Fundamental strokes, including forehands, backhands, volleys, lob, overheads, and serves; introduction to singles and doubles play; terminology, rules, and etiquette.

PE 1042 Orienteering
OPT No Aud, 1 credit(s);
Instructor: Marchand, Genevieve
Description: This course is designed for students with no experience in the sport of orienteering. It will address the fundamentals of basic land navigation skills as they apply to orienteering. The class is experientially based and active participation is required. Classes will meet at different venues throughout the semester, such as Como Park and Theodore Wirth Park. You are also expected to go to two orienteering meets taking place on the weekends. You are expected to provide your own transportation to all class sites. Orienteering is an outdoor activity and most of the class time will be spent outside. Plan to dress accordingly. While this class is not intended to be competitive, you should expect a medium to high level of physical exertion. Regardless of weather, assume class is meeting unless contacted by the instructor.
Style: 10% Lecture, 90% Field Trips.
Grading: 20% mid exam, 20% final exam, 30% class participation, 30% other evaluation. Orienteering events (MNOC)
Exam Format: Practical course and some written questions

PE 1043 Beginning Horse Riding
OPT No Aud, 1 credit(s);
Instructor: Benner, Jaime Ashley
Description: Techniques, styles, and communication of English riding. Students will learn riding techniques at a walk, trot, canter, and jumping.

PE 1044 Self-Defense
OPT No Aud, 1 credit(s);
Instructor: Bendickson, Anita Olivia
Description: Course consists of learning basic physical and psychological skills to help the student recognize and act in crisis

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
and pre-crisis situations: to avoid or stop physical assault, harassment, irritating and/or dangerous situations and encounters. Physical skills include basic striking, kicking, shifting (learning to move out of the way), blocking, and specialized techniques for specific situations. Psychological skills include learning to analyze self-defense situations, i.e., what strengths does the student have, what vulnerabilities does his/her opponent have and what opportunities are there to apply those strengths and use those vulnerabilities. This includes developing an understanding of force, eye contact and strong body language, and basic verbal skills such as assertiveness. Class work will include drills in physical techniques to develop coordination and strength, practice time in hitting and kicking. Physical skills include basic striking, kicking, shifting (learning to move out of the way), blocking, and specialized techniques for specific situations. Psychological skills include learning to analyze self-defense situations, i.e., what strengths does the student have, what vulnerabilities does his/her opponent have and what opportunities are there to apply those strengths and use those vulnerabilities. This includes developing an understanding of force, eye contact and strong body language, and basic verbal skills such as assertiveness. Class work will include drills in physical techniques to develop coordination and strength, practice time in hitting and kicking bags, many controlled situations with partners (including floor, weapon, and multiple attacker situations) to teach basic skills of analysis and application.

Style: 10% Discussion.
Grading: 50% final exam, 20% reports/papers, 30% class participation.
Exam Format: Physical demonstration of basic skills plus student's choice of one from each of the following four categories (partner exercises): 1) basic blocking, 2) response to a grab from the front, 3) response to a grab from behind, 4) one special situation.

PE 1044 Self-Defense
OPT No Aud, 1 credit(s);
Instructor: Brandt, Mary Kathryn
Description: Course consists of learning basic physical and psychological skills to help the student recognize and act in crisis and pre-crisis situations: to avoid or stop physical assault, harassment, irritating and/or dangerous situations and encounters. Physical skills include basic striking, kicking, shifting (learning to move out of the way), blocking, and specialized techniques for specific situations. Psychological skills include learning to analyze self-defense situations, i.e., what strengths does the student have, what vulnerabilities does his/her opponent have and what opportunities are there to apply those strengths and use those vulnerabilities. This includes developing an understanding of force, eye contact and strong body language, and basic verbal skills such as assertiveness. Class work will include drills in physical techniques to develop coordination and strength, practice time in hitting and kicking bags, many controlled situations with partners (including floor, weapon, and multiple attacker situations) to teach basic skills of analysis and application.

Style: 10% Discussion.
Grading: 50% final exam, 20% reports/papers, 30% class participation.
Exam Format: Physical demonstration of basic skills plus student’s choice of one from each of the following four categories (partner exercises): 1) basic blocking, 2) response to a grab from the front 3) response to a grab from behind 4) one special situation.

PE 1045 Rock Climbing
OPT No Aud, 1 credit(s); prereq Good general health, no [neck or back] problems;
Instructor: Tracy, Shawn Patrick
Description: This course starts from square one and covers safety, knots, climbing techniques and basic anchor building. A comprehensive introduction to indoor rock climbing. Much of the time is spent actively climbing on the wall. Active participation and in class activities are the bulk of the grading and curriculum. Course is held at the St. Paul Gymnasium Climbing Wall.

PE 1046 Tae Kwon Do
OPT No Aud, 1 credit(s);
Instructor: Kim, Il Keun
Description: Fundamentals of Tae Kwon Do. Principles of martial arts, body mechanics of Tae Kwon Do, practical self-defense.

PE 1048 Bowling
OPT No Aud, 1 credit(s);
Instructor: Schmid, Michael F
Description: Fundamentals, including stance, approach and delivery, scoring, bowling terminology, and etiquette.

PE 1055 Golf
OPT No Aud, 1 credit(s);
Instructor: Chung, Vinh Khai
Description: Proper grip, stance, ball address, swing, club selection, psychological management, rules, and etiquette. Basic instruction in analyzing, assisting with, and coaching golf.

PE 1056 Nordic (Cross-Country) Skiing
OPT No Aud, 1 credit(s);
Instructor: Morrissey, Sean Patrick
Description: Introduction to the fundamental techniques of classical and freestyle cross country skiing. Students will be taught through lecture and direct experience on cross country skiing trails.

PE 1059 Track and Field
OPT No Aud, 1 credit(s);
Instructor: Frye, Adam C
Description: Introduction to track and field: conditioning and training, events and skills, strategies, track and field knowledge, equipment, facilities, and technology.

PE 1067 Basketball
OPT No Aud, 1 credit(s);
Instructor: Frye, Adam C
Description: Fundamental skills and rules of basketball, with emphasis on basic court movement and different offensive and defensive strategies.

PE 1072 Soccer
OPT No Aud, 1 credit(s);
Instructor: Adamcsek, Viktor Istvan
Description: Fundamentals of soccer including sporting behavior both on and off the field, game rules, soccer terminology, participation and competition drills, fundamental soccer skills, practical instruction in strategy.

PE 1074 Beginning Volleyball
OPT No Aud, 1 credit(s);
Instructor: Shingles, Kori Elizabeth
Description: Student may contact the instructor or department for information.

PE 1075 Ice Hockey
OPT No Aud, 1 credit(s); prereq 1053 or equiv or instr consent;
Instructor: Fitzgerald, John S
Description: Offensive/defensive strategies/techniques, goal tending, scrimmage play. Students need their own equipment.

PE 1107 Intermediate Swimming
OPT No Aud, 1 credit(s); prereq 1007 or equiv, proficient ability to swim 100 meters or instr consent;
Schedule.

Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.

PE 1129 Intermediate Handball
OPT No Aud, 1 credit(s); prereq 1029 or instr consent;
Instructor: Carlson, James Earl
Description: Student may contact the instructor or department for information.

PE 1133 Intermediate Foil Fencing
OPT No Aud, 1 credit(s); prereq 1033 or equiv or instr consent;
Instructor: Sobalvarro, J Roberto
Description: Intermediate/advanced technical/tactical actions in foil, rudimentary epee skills, intermediate/advanced footwork. Rules, officiating, bout tactics.

PE 1135 Intermediate Karate
OPT No Aud, 1 credit(s); prereq 1035 or equiv or instr consent;
Instructor: Fusaro, Robert L
Description: Techniques of Japanese traditional Shotokan Karate taught through Ippon Kumite (one step sparring), San Kumite (three step sparring), and Heian Shodan Kata/Nidan Kata (forms). Testing for orange belt is optional.

PE 1137 Intermediate Squash
OPT No Aud, 1 credit(s); prereq 1037 or instr consent;
Instructor: Stever, John Ball
Description: Student may contact the instructor or department for information.

PE 1146 Intermediate Tae Kwan Do
OPT No Aud, 1 credit(s); prereq 1046, previous Tae Kwon Do experience (World Tae Kwon Do Federation sanctioned), basic white Tae Kwon Do uniform;
Instructor: Kim, Il Kaun
Description: Continuation of 1046. Focuses on Olympic-style intermediate skills/techniques. Self-defense techniques for men/women.

PE 1205 Scuba and Skin Diving
OPT No Aud, 1 credit(s); prereq Ability to swim 400 yds comfortably or instr consent;
Instructor: Karl, Robert J
Description: This course is available to all students and prospective students (through CCE) at the University. The course consists of classroom instruction and practical pool work. SCUBA Certification is not included in the course. The third part necessary for certification (4-open water dives) can be arranged through the instructor at an additional charge. Students must also agree to get a referral letter and take their open water dives at numerous locations around the world. Classroom subjects include the physics and physiology of diving, equipment, decompression, dive planning, emergencies, and the marine environment. Some topics require mandatory attendance. Pool work covers all necessary applications to diving. All students must be comfortable being in the water, and must be able to swim a minimum of 400 yards. Students should plan on attending all class and pool sessions. As quizzes will be administered throughout the course and all pool work is built on previously learned skills. All evening students and all day school students whose classes start on Thursdays, must come to the first class with appropriate swimming attire (i.e. swimming suits). Evening classes have a 2-hr. lecture period followed by 2 hrs. of pool work. Day classes have lectures on Tuesdays and pool work on Thursdays. Please check the website http://SuperiorExpeditions.com for forms and notes for requirements and limitations for SCUBA diving. There will be a $95 course fee.
Style: 50% Lecture, 50% Laboratory.
Grading: 33% final exam, 33% quizzes, 33% class participation.
Exam Format: multiple choice

PE 1262 Marathon Training
Instructor: Porter, Ayanna L
Description: Student may contact the instructor or department for information.

Physical Therapy
382 Children's Rehabilitation Center

PT 1002 Orientation to Physical Therapy
S-N only, 1 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

PT 6214 Clerkship II
A-F only, 2 credit(s); prereq Registered PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 6216 Clerkship IV
A-F only, 1 credit(s); prereq Registered 2nd yr PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 6220 Clinic Volunteer
No Grade, 1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Frank, Daire Annis
Description: Student may contact the instructor or department for information.

PT 6221 Therapeutic Procedures
A-F only, 4 credit(s); prereq Registered PT student;
Instructor: Olson-Kellogg, Becky Jo
Description: Student may contact the instructor or department for information.

PT 6282 Scientific Foundations II: Neuromotor Control
A-F only, 3 credit(s), max credits 45, 1 repeat allowed;
prereq Registered PT student;
Instructor: Kimberley, PT, PhD, Teresa Jacobson
Description: Student may contact the instructor or department for information.

PT 6284 Musculoskeletal Rehabilitation II
A-F only, 4 credit(s); prereq Regis PT student;
Instructor: Anderson, Kathleen
Description: Student may contact the instructor or department for information.

PT 6287 Neurorehabilitation I
A-F only, 8 credit(s); prereq Regis PT student;
Instructor: Leuty, Lynnette K
Description: Student may contact the instructor or department for information.

PT 6297 Clinical Internship III
S-N only, 10 credit(s); prereq Registered PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 6298 Clinical Internship IV
S-N only, 10 credit(s); prereq Registered PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.
PT 7001 Topics in Musculoskeletal PT
A-F only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Admitted in transitional doctoral of physical therapy program;
Instructor: Anderson,Kathleen
Description: Student may contact the instructor or department for information.

PT 7003 Topics in Integumentary Physical Therapy
A-F only, 2 credit(s); prereq Admitted in transitional doctoral of physical therapy program;
Instructor: Cole,Pamela S
Description: Student may contact the instructor or department for information.

PT 7005 Topics in Pediatric Physical Therapy
A-F only, 1 credit(s); prereq Admitted in transitional doctoral of physical therapy program;
Instructor: Dorsey,Lisa L
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Care,James Robert
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Snow MD,PhD,LeAnn M
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 repeats allowed;
prereq Grad PT major;
Instructor: Snow MD,PhD,LeAnn M
Description: Student may contact the instructor or department for information.

PHYS 1001W Energy and the Environment
4 credit(s); prereq 1 yr high school algebra; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: This course addresses current issues of the
relationship between energy use and the environment by starting with the fundamental physics principles of force and energy, and demonstrating how these concepts apply to Electricity and Magnetism, Thermodynamics, Chemical Physics and Nuclear Power generation. These principles are applied to specific applications by examining topics such as power production, acid rain and fuel resources. The consequences of fundamental physics on public policy will also be discussed in this context. Math skills at the level of high school algebra are assumed. The accompanying laboratory is a series of short experiments which illustrate the concepts as they are presented in class.

PHYS 1011 Physical World
A-F only, 3 credit(s); prereq 1 yr high school algebra;
Instructor: Cassola, Robert L
Description: Student may contact the instructor or department for information.

PHYS 1101W Introductory College Physics I
4 credit(s); prereq High school algebra, plane geometry, trigonometry; primarily for students interested in technical areas. Credit will not be granted if credit received for: 1107, 1201W, 1301W, 1401V; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This is the first part of a course sequence designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and deductive problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires an in depth understanding of the material. Phys 1101W will emphasize the dynamics approach to physics emphasizing the description of motion of interacting objects and the forces that they exert on each other. No previous physics knowledge is assumed, but it is assumed that you are able to do algebra, including solving quadratic and simultaneous equations, interpret simple graphs, basic geometry, especially the geometry of triangles; the use of sine, cosine, and tangent; and the Pythagorean theorem. A laboratory requires you to apply both the concepts and problem solving skills taught in this course to the real world. It also emphasizes technical communications skills. A discussion section gives you the opportunity to discuss your conceptual understanding and problem solving skills while you practice solving problems with other students. The laboratory and discussions sections emphasize collaborative problem solving as a powerful learning tool and as a preparation for work in your profession.

PHYS 1102W Introductory College Physics II
4 credit(s); prereq 1101W or 1107; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This is the second term of a course sequence designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires an in depth understanding of the material. This course will emphasize the application of the principles and skills learned in Physics 1101W to more complex, abstract, and realistic situations involving topics from fluids, thermal physics, waves, electricity, magnetism, optics, and atomic physics. A laboratory requires you to apply both the concepts and problem solving skills taught in this course to the real world. It will also emphasize technical communications skills. A discussion section gives you the opportunity to discuss your conceptual understanding and your problem solving skills by practicing working problems with other students. The laboratory and discussions sections emphasize collaborative problem solving as a powerful learning tool and as a preparation for work in your profession.
PHYS 1402V Honors Physics II

4 credit(s); prereq Concurrent registration is required (or allowed) in Math 1271 or Concurrent registration is required (or allowed) in Math 1372; Credit will not be granted if credit has been received for: PHYS 1201W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This is the first of a three semester introductory course in physics for students in sciences and engineering. 1301W/1302W, 2303 or 2503 is designed to prepare you for work in your field by: building a solid conceptual understanding of fundamental principles of physics, and their applications; applying those principles to new situations, using logical reasoning and quantitative problem-solving skills; learning to communicate technical information effectively. To achieve these goals, this course requires you to understand the material in depth. 1301W will emphasize the study of mechanical systems, beginning with the description of motion of interacting objects, the forces that they exert on each other and the quantities that are conserved in those interactions. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students. This is a calculus-based course, and students will be expected to use the basic concepts of differential and integral calculus, as well as algebra and trigonometry.

PHYS 1302W Introductory Physics for Science and Engineering II

4 credit(s); prereq 1301W, Concurrent registration is required (or allowed) in Math 1272 or Math 1372 or Math 1572; Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This is the 2nd of a 3 semester intro course in physics for students in science and engineering. 1302W emphasizes the application of the physical principles learned in 1301W to electrical and magnetic interactions. The course is designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires you to understand the material in depth. Emphasis will be given to the application of physics principles to real-life situations, and will use problems designed to simulate such situations. This course assumes a good working knowledge of the concepts and skills in 1301W. Because of the nature of this material, this course will be more abstract and mathematical than 1301W. A lab is included to allow you to apply both the concepts and problem solving skills to the real world. It will also emphasize technical communications skills. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your problem solving skills with other students.

PHYS 1402V Honors Physics II

4 credit(s); prereq honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This is the second of a three semester introductory course in physics for students in the IT Honors Program. It is designed to prepare you for work in your field by: having a solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. This course requires you to understand the material in depth; it will go at a faster pace than Physics 1302W and at a higher mathematical level. The emphasis will always be on the application of physics principles to interesting situations, and problems will be designed to simulate such situations. 1402V will emphasize the application of the principles learned in 1401V to the electromagnetic interaction. Fundamental ideas will be applied to complex systems using abstract concepts such as vector fields. Students should have the ability and desire to use mathematics not yet introduced in math class. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students.

PHYS 1905 Freshman Seminar: WIN FRIENDS AND INFLUENCE PEOPLE WITH PHYSICS

A-F only, 2 credit(s), max credits 6; prereq Fr;

Instructor: Cattell,Cynthia Anne

Description: Student may contact the instructor or department for information.

PHYS 2303 Physics III: Physics of Matter

4 credit(s); prereq 1302, [MATH 1272 or MATH 1372 or MATH 1572H], [MatSci or EE] student; Credit will not be granted if credit has been received for: PHYS 2403H;

Instructor: Ganz,Eric D

Description: This is the third and final semester of an introductory course in physics for students in sciences and engineering which began with Physics 1301W/1302W. Physics 2303 is a broad survey of physics topics which have been important in the 20th and early 21st century. The topics include thermodynamics, mechanical and electromagnetic waves, optics, nuclear physics, quantum theory, and applications of the quantum nature of solids. This course is taken primarily by MatSci, EE, and other students who plan to take only 3 semesters of physics. Physics majors and students wanting 4 semesters of physics or an emphasis on special relativity should take Phys 2503 instead.

Style: 75% Lecture, 10% Discussion, 15% Demonstration.
Grading: 33% final exam, 50% quizzes, 17% problem solving. Homework will be graded using WebAssign

PHYS 2311 Modern Physics

4 credit(s); prereq [1302 or 1402], Chem 1022, Math 2243;

Instructor: Cassola,Robert L

Description: Student may contact the instructor or department for information.

PHYS 2601 Quantum Physics

4 credit(s); prereq [2403H or 2503], [concurrent enrollment Math 2243 or Math 2373 or Math 2574H];

Instructor: Cushman,Priscilla Brooks

Description: This is a one semester course giving an overview of the concepts that have dominated contemporary physics and technology. It is designed for science and engineering students who have successfully completed Physics 2503, 2403H or the equivalent. The course begins with an exploration of phenomena that can only be explained using quantum ideas including quantum statistics, giving rise to the Schrodinger Equation. The solutions to the Schrodinger Equation under different constraints are explored and compared to observations. Applications of quantum mechanics are used to explain the structure of atoms, molecules, and nuclei; the properties of conductors, semiconductors, and superconductors; the evolution of the universe; and the most fundamental constituents of nature. A laboratory, 2605, (required for physics majors) explores the same ideas in concrete situations and should be taken concurrently. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your
PHYS 2605 Quantum Physics Laboratory
3 credit(s); prereq concurrent enrollment 2601; Instructor: Cronin-Hennessy, Daniel P
Description: This laboratory is designed to accompany Physics 2601. The laboratory includes a series of experiments that are part of the foundation of quantum physics. It emphasizes important laboratory skills such as defining a problem and measurement procedure, debugging equipment, and the statistical analysis of data. Laboratory reports emphasize in depth technical communication of measurement and analysis techniques motivated by a solid description of the physical principles involved. This laboratory will give experiences that depend on and motivate the theories discussed in Physics 2601.

PHYS 3071W Laboratory-Based Physics for Teachers
4 credit(s); prereq No IT credit, college algebra; designed for students intending to be education majors; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive; Instructor: Huang, Cheng-Cher
Description: This course is intended to provide an experience based introduction to a selection of fundamental physics concepts especially chosen to be useful for potential elementary school teachers. These fundamental concepts include the interaction between objects and the description of that interaction by energy, forces, and fields. These ideas will be applied to electricity and magnetism as well as optics and heat. The course is activity-based and collaboration-oriented with four major goals: (1) to help you construct a set of physics ideas that you can apply to explain phenomena that are intrinsically interesting at a level appropriate to an elementary school science curriculum; (2) to help you understand the process of doing science; (3) to give you practice and confidence in doing science, and (4) to link the development of the course material to your own learning. The teaching and learning strategies used in this course will be valuable and appropriate for use in your teaching career. No specific background in science or mathematics is assumed in this course.

PHYS 4002 Electricity and Magnetism
4 credit(s); prereq [2303 or 2601 or Chem 3501 or Chem 3502], two sems soph math; Instructor: Lyubimov, Irina L
Description: The course emphasizes a mathematically sophisticated development of Maxwell's equations and their applications. This course develops the skills of solving the difficult problems that arise in complex electromagnetic interactions using advanced mathematical techniques. The fundamental concepts of electromagnetism such as Gauss' law, the Biot-Savart law, Ampere's law, and Faraday's law will be revisited from a more sophisticated point of view and using more advanced mathematics than in introductory courses. The innate connection between electromagnetism and special relativity will be addressed. Mathematics beyond the prerequisite mathematics courses are developed as required. There will be an emphasis on vector calculus such as the use of Laplace's equation. Knowledge of physics learned in Physics 2303, 2403H, or 2503 is assumed. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your problem solving skills in collaboration with other students.

PHYS 4052W Methods of Experimental Physics II
5 credit(s); prereq 4051; Meets CLE req of Writing Intensive; Instructor: Crowell, Paul A
Description: This is the second part of a two semester sequence on experimental techniques that are used in a research laboratory. Students put into practice the techniques studied during the first semester by carrying out pre-designed laboratories, and by designing, planning, and executing an experimental project of their choice. This course emphasizes electronics, data processing, computer programming, and data analysis techniques. In addition the course emphasizes the writing of scientific research reports suitable for publication as well as their oral presentation. The course is designed for physics majors, and other students who are interested in mastering modern laboratory techniques. The knowledge and skills gained in Physics 4051 are required to enter this course.

PHYS 4211 Introduction to Solid-State Physics
3 credit(s); prereq 4101, 4201; Instructor: Kamenev, Alex
Description: This course is a technical introduction to the quantum basis of the properties of materials. It is an essential introduction for those interested in doing research in the field of condensed matter physics or material science, and is designed for advanced undergraduates and graduate students. The knowledge and skills learned in Physics 4101 and 4201 are assumed. Mathematics beyond the prerequisite mathematics courses are developed as required. Topics include vibrational and electronic properties of crystals; driffration of waves in solids and electron band structure. Other possible topics include optical properties, magnetic phenomena, and superconductivity; non-crystalline solids, such as glasses and polymers.

PHYS 4501 Experimental Project
1-5 credit(s), max credits 5, 1 repeat allowed; prereq 4052, instr consent; Instructor: STAFF
Description: This course is an independent experimental project designed by a student in collaboration with a faculty member.

PHYS 4511 Introduction to Nuclear and Particle Physics
3 credit(s); prereq 4101; Instructor: Poling, Ronald A
Description: This course is a survey of nuclear and particle physics for advanced undergraduate and beginning graduate students. It explores the common roots and tools of the nuclear (medium energy) and particle (high energy) fields. The main objective is to develop an understanding of the Standard Model of quarks, leptons and the fundamental interactions of the universe. Mathematical rigor is not an essential feature, but the ability to do calculations of particle and nuclear phenomena is an important goal. The knowledge and skills learned in Physics 1302W or 1402V as well as those from Physics 4101 are assumed. Specific topics include the techniques of particle and nuclear experiments, properties and simple models of nuclei, fundamental interactions and their mediators, quarks and leptons, symmetries and tests of conservation laws, indications of physics beyond the Standard Model, and future projects.

PHYS 4911 Introduction to Biopolymer Physics
3 credit(s); prereq [2303, 2403H, 2503] or Chem 3501 or instr consent; Instructor: Noireaux, Vincent
Description: This course is a survey course in soft condensed matter physics emphasis on biological physics. It will explore the physical ideas involved in the experimental and theoretical understanding of biological and synthetic macromolecules and materials. This course is for advanced undergraduates and beginning graduate students in physics, other sciences, or engineering. The skills and knowledge from Physics 1301W/1302W/2503 or Physics 1201W/1202W are assumed. The fundamental ideas of probability and statistics will be used freely. Applications include the behavior of polymer chains including rubber and DNA, cell mechanics, molecular motors, and membrane mechanics.

Style: 60% Lecture, 25% Discussion, 15% Demonstration.
Grading: 25% mid exam, 40% final exam, 35% problem solving.
Exam Format: Problem solving

PHYS 4911 Introduction to Biopolymer Physics
3 credit(s); prereq [2303, 2403H, 2503] or Chem 3501 or instr consent; Credit will not be granted if credit has been received for: PHYS 5081; Instructor: Noireaux, Vincent
Description: This course is a survey course in soft condensed matter physics emphasis on biological physics. It will explore the physical ideas involved in the experimental and theoretical understanding of biological and synthetic macromolecules and materials. This course is for advanced undergraduates and beginning graduate students in physics, other sciences, or engineering. The skills and knowledge from Physics 1301W/1302W/2503 or Physics 1201W/1202W are assumed. The fundamental ideas of probability and statistics will be used freely. Applications include the behavior of polymer chains including rubber and DNA, cell mechanics, molecular motors, and membrane mechanics.

Style: 50% Lecture, 10% Discussion.
Grading: 25% mid exam, 25% final exam, 50% written
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5002</td>
<td>Quantum Mechanics II</td>
<td>4</td>
<td>prerequisite 5001 or equiv;</td>
<td>Mandic, Yuk</td>
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<tr>
<td>PHYS 5012</td>
<td>Classical Physics II</td>
<td>4</td>
<td>prerequisite 5011 or instr consent;</td>
<td>Kapusta, Joseph I</td>
</tr>
<tr>
<td>PHYS 5072</td>
<td>Best Practices in College Physics Teaching</td>
<td>1-3</td>
<td>prerequisite credits 5, 3 repeats</td>
<td>Kubota, Yuichi</td>
</tr>
<tr>
<td>PHYS 5081</td>
<td>Introduction to Biopolymer Physics</td>
<td>3</td>
<td>prerequisite knowledge of thermodynamics, statistical mechanics; credit will be granted if credit has been received for PHYS 4911; prerequisite instr consent</td>
<td>Li, Michael</td>
</tr>
<tr>
<td>PHYS 5701</td>
<td>Solid-State Physics for Engineers and Scientists</td>
<td>4</td>
<td>prerequisite Grad or advanced undergrad in physics or engineering or the sciences; prerequisite instr consent</td>
<td>Noireaux, Vincent</td>
</tr>
<tr>
<td>PHYS 8011</td>
<td>Quantum Field Theory I</td>
<td>3</td>
<td>prerequisite 8001 or instr consent;</td>
<td>Vaithilingam, Arkady</td>
</tr>
<tr>
<td>PHYS 8200</td>
<td>Seminar: Cosmology and High Energy Astrophysics</td>
<td>S-N only</td>
<td>prerequisite credits 6, 6 repeats;</td>
<td>Heger, Alexander</td>
</tr>
<tr>
<td>PHYS 8501</td>
<td>General Relativity and Cosmology I</td>
<td>3</td>
<td>prerequisite 5012 or instr consent;</td>
<td>Olve, Keith A</td>
</tr>
<tr>
<td>PHYS 8702</td>
<td>Statistical Mechanics and Transport Theory II</td>
<td>3</td>
<td>prerequisite 8701 or instr consent;</td>
<td>Valls, Ori</td>
</tr>
</tbody>
</table>

**Grading:**
- 25% mid exam, 25% final exam, 50% written homework.
- 90% Lecture, 10% Discussion.
- 80% reports/papers, 10% in-class presentation, 10% class participation.

**Course Guide at** [http://onestop.umn.edu](http://onestop.umn.edu). **IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at [http://onestop.umn.edu](http://onestop.umn.edu). **IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule.
PHSL 5094 Research in Physiology
1-5 credit(s), max credits 20, 20 repeats allowed; prereq instr consent;
Instructor: Barnett, Vincent A
Description: Student may contact the instructor or department for information.

PHSL 5095 Problems in Physiology
1-5 credit(s), max credits 20, 20 repeats allowed; prereq instr consent;
Instructor: Katz, Stephen A.
Description: Student may contact the instructor or department for information.

PHSL 5010 Human Physiology
5 credit(s); prereq Grad student;
Instructor: Wangensteen, Douglas
Description: This course is for physical therapy and graduate students and is taught concurrently with the physiology course for first year medical students (PHSL 6101). Students should be registered in a degree-granting graduate program. The course is an advanced survey of human physiology. Topics presented are cardiovascular, respiratory, gastrointestinal, renal, muscle and exercise physiology. Lectures, demonstration/lab sessions, written assignments and exams are the same for students in both PHSL 5010 and PHSL 6101. It is assumed that students in PHSL 5010 will, or be able to acquire, a minimal background in anatomy, histology and biochemistry. Because this course follows the medical school schedule, it begins the first week in January and ends the first week in May. For a lecture and demonstration/lab schedule contact the course director at wange001@umn.edu.
Style: 90% Lecture, 5% Laboratory, 5% Demonstration.
Grading: 25% mid exam, 38% final exam, 25% quizzes, 12% written homework.

PHSL 5116 Advanced Clinical Physiology for Nurse Anesthetists
A-F only, 3 credit(s); prereq 5115, instr consent;
Instructor: Anderson, Lisa Carney
Description: Student may contact the instructor or department for information.

PHSL 5315 Human Power, Sports Performance, and Disease Treatment
2 credit(s); prereq Major in [physiology or medicine or physical therapy or kinesiology or coaching/elite athletic training], instr consent;
Instructor: Halvorsen II, Daniel Kasberg
Description: Student may contact the instructor or department for information.

PHSL 5355 Directed Study: Humans in Extreme Environments
1-5 credit(s), max credits 25, 5 repeats allowed; prereq [3061 or equiv], instr consent;
Instructor: Koscheev, Victor S
Description: Student may contact the instructor or department for information.

PHSL 5356 Research: Humans in Extreme Environments
1-5 credit(s), max credits 25, 5 repeats allowed; prereq [3061 or equiv], instr consent;
Instructor: Koscheev, Victor S
Description: Student may contact the instructor or department for information.

PHSL 5444 Muscle
3 credit(s); prereq 3061 or 3071 or 5061 or BioC 3021 or BioC 4331 or instr consent Credit will not be granted if credit has been received for: MdBc 5444 or VPB 5444; Credit will not be granted if credit has been received for: BioC 5444;
Instructor: Thomas, David D
Description: Introduction to physiology, biochemical regulation, and physical chemistry of muscle contraction. Prerequisites: undergraduate courses in biochemistry or physiology.
Style: 80% Lecture, 15% Discussion, 5% Laboratory.
Grading: 25% mid exam, 40% final exam, 35% reports/papers.
Exam Format: essay, problem solving

PHSL 5510 Advanced Cardiac Physiology and Anatomy
2-3 credit(s); prereq instr consent;
Instructor: Iaizzo, Paul Anthony
Description: Course Objectives: 1) Provide an overview of the physiology and anatomy underlying cardiac function 2) Provide details on cardiac microcirculation, cellular function and oxygen delivery 3) Provide students with an understanding of cardio-pathophysiology and current clinical treatments 4) Allow students to perform dissection within the Human Gross Anatomy Lab 5) Provide students with various demonstrations on monitoring cardiac function

PHSL 6501 Systems Physiology
A-F only, 4 credit(s); prereq [Prev or current] neuroscience course; [biochemistry, human anatomy] recommended;
Instructor: Katz, Stephen A.
Description: Student may contact the instructor or department for information.

PHSL 8216 Selected Topics in Autonomic and Neuroendocrine Regulation
S-N only, 1 credit(s); Credit will not be granted if credit has been received for: NSC 8216;
Instructor: Engeland, William C
Description: Student may contact the instructor or department for information.

Plant Biological Sciences
250 Biological Sciences

PBS 8123 Research Ethics in the Plant and Environmental Sciences
S-N only, 0.5 credit(s); prereq Grad student in [applied plant sciences or plant pathology or plant biological sciences or soil science];
Instructor: Steffenson, Brian Joel
Description: Student may contact the instructor or department for information.

PBS 8900 Seminar
S-N only, 1-2 credit(s), max credits 4, 4 repeats allowed;
Instructor: Cohen, Jerry D
Description: Student may contact the instructor or department for information.

PBS 8910 Journal Club
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;
PBIO 4516W Plant Cell Biology: Writing Intensive
3 credit(s); prereq [Biol 2022 or Biol 3002 or Biol 3007], [Biol 3021 or Biol 3021 or Biol 4003] Credit will not be granted if credit has been received for PBIO 5414; Credit will not be granted if credit has been received for: PBIO 5516; Meets CLE req of Writing Intensive;
 Instructor: Ward, John M
Description: This course is an introduction to current research topics in Plant Cell Biology. Published reviews and primary research papers in the field will be used as text. The goal is to develop an understanding of how cellular structures function and contribute to cell growth and development. In addition to learning how to read primary literature, emphasis will be placed on developing a clear and concise writing style appropriate for incisive criticism of scientific papers. Readings will include 8-10 reviews that will be covered by lectures during the first 1/3 of the course. Approximately 12 primary research papers will be covered in the last 2/3 of the course. Students will choose at least 5 of the 12 primary research papers and write a one page critique which will be due on the day that the paper is discussed in class. These will be graded for scientific content. In addition, students enrolled in 4516W will receive comments concerning the writing style of their paper. Students will rewrite at least 5 critiques of primary research papers. The length of the resubmitted paper should be 2-3 pages. The revised critique should include a clear and concise presentation of the content of the scientific paper, the impact of the paper on our understanding of the research topic, and criticisms of the paper derived from discussions in the class. The revised critiques will be returned with comments for improvement. The final draft will be graded on content, clarity, and style.
Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 25% final exam, 50% reports/papers.
Exam Format: short answer

PBIO 4601 Topics in Plant Biochemistry
A-F only, 3 credit(s); prereq [Biol 1002 or Biol 1009 or Biol 2003], CHEM 2301;
 Instructor: Gleason, Florence K
Description: This course is intended for upper level undergraduate students and graduate students who need a background course in biochemistry that is specifically focused on processes unique to photosynthetic organisms. The course will start with an analysis of photosynthesis and carbon metabolism in plants. Basic metabolic pathways for the synthesis of lipids, steroids, and aromatic amino acids will be covered as a background for the introduction to natural products such as lignin, flavonoids, and alkaloids.
Style: 70% Lecture, 30% Discussion.
Grading: 30% mid exam, 25% final exam, 20% reports/papers, 10% special projects, 10% in-class presentation, 5% problem solving.
Exam Format: short answers, essay

PBIO 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 repeats allowed; prereq instr consent; Meets CLE req of Writing Intensive;
 Instructor: STAFF
Description:

PBIO 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
 Instructor: STAFF
Description:
PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: Brambl, Robert Morgan  
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: Sillifow, Carolyn D  
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: Ni, Min  
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: VandenBosch, Kathryn A  
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: Tiffin, Peter L  
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: Ward, John M  
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent ;  
Instructor: Gibson, Sue  
Description: Student may contact the instructor or department for information.

PBIO 5516 Plant Cell Biology  
3 credit(s); prereq [Biol 2022 or Biol 3007 or Biol 3022], [Biol 3021 or BioC 3021 or Biol 4003] Credit will not be granted if credit has been received for PBio 5414; Credit will not be granted if credit has been received for: PBio 4516W;  
Instructor: Ward, John M  
Description: This course is an introduction to current research topics in Plant Cell Biology. Published reviews and primary research papers in the field of Plant Cell Biology will be used as text for this class. The goal is to develop an understanding of how cellular structures function and contribute to cell growth and development. In addition to learning how to read primary literature, emphasis will be placed on developing a clear and concise writing style appropriate for incisive criticism of scientific papers. READING ASSIGNMENTS: This will include 8-10 reviews that will be covered by lectures during the first 1/3 of the course. Approximately 12 primary research papers will be covered in the last 2/3 of the course. Students will choose at least 5 of the 12 primary research papers and write a one page critique which will be due on the day that the paper is discussed in class. These will be graded for scientific content. The 5 highest scores will constitute 25% of the final grade. EXAMS: Two exams and one final, each worth 100 points will be given. All three exams will count toward the final grade. GRADING: (total of 400 points): 3 exams 100 points each; 5 best scores for written critiques (20 pts each) Style: 70% Lecture, 30% Discussion. Grading: 25% mid exam, 25% final exam, 50% reports/papers.  
Exam Format: short answer

PBIO 5960 Special Topics  
1-3 credit(s), max credits 18, 6 repeats allowed; prereq Plant biology course;  
Instructor: Gleason, Florence K  
Description: Student may contact the instructor or department for information.

PBIO 5960 Special Topics  
1-3 credit(s), max credits 18, 6 repeats allowed; prereq Plant biology course;  
Instructor: May, Georgiana  
Description: Student may contact the instructor or department for information.

Plant Pathology  
495 Borlaug Hall

PLPA 2001 Introductory Plant Pathology  
3 credit(s); prereq BIOL 1009 or equiv;  
Instructor: Dill-Macky, Ruth  
Description: Course Description: The purpose of this course is to provide undergraduate students with a foundation in applied plant pathology. In the lectures students will be introduced to the concepts that form the basis for our understanding of the causes and control of plant diseases. The course emphasizes the
biological and ecological aspects of plant disease and the role of plant diseases in plant production. Students are not expected to have a prior knowledge of plant pathology. The lectures are complemented by a weekly laboratory session that provides students with practical experience in the recognition of disease in plants, disease diagnosis and in the identification of plant pathogens. Students will also conduct some practical exercises in disease control. The course is intended to appeal to students with an interest in biology, and will increasing their awareness and knowledge of the microorganisms that cause disease in plants, plant disease development and the management of plant disease. Most students that take this course are undergraduates in horticulture, agriculture, natural resources or biological sciences.

**PLPA 3003 Diseases of Forest and Shade Trees**

- **3 credit(s);**
- **Instructor:** Blanchette, Robert A
- **Description:** This course provides an overview of tree diseases in urban and forested areas. It covers diseases that have had significant impact on society, such as Dutch elm disease, oak wilt, chestnut blight, white pine blister rust, etc., as well as cankers, leaf diseases, root rot and other tree problems. A laboratory session each week enables students to get hands-on experience identifying disease agents, examining symptoms and learning appropriate control procedures. Emphasis will also be placed on ecological processes, biological and cultural control and host-parasite interactions. This course should be of value to anyone interested in biological sciences, natural resources and ecology. It is an essential class for individuals that will have a career in natural resources, but should also be useful to those interested in maintaining healthy trees at home, in urban areas or woodlands.
- **Style:** 50% Lecture, 20% Discussion, 30% Laboratory.
- **Grading:** 50% mid exam, 10% special projects, 10% laboratory evaluation, 10% problem solving.
- **Exam Format:** Short answer, Short essay

**PLPA 3090 Research in Plant Pathology**

- **1-4 credit(s), max credits 4, 1 repeat allowed;**
- **Instructor:** STAFF
- **Description:** Assignment of a special problem to undergraduates desiring an opportunity for independent research in plant pathology. The student determines the problem.
- **Style:** 100% Laboratory.
- **Grading:** 100% laboratory evaluation.

**PLPA 4096 Professional Experience Program: Internship**

- **S-N only, 1-3 credit(s), max credits 6, 6 repeats allowed; prereq COAFES undergrad, complete internship contract available in COAFES Career Services before registering; UC only;**
- **Instructor:** STAFF
- **Description:** Supervised practicum professional experience in plant pathology. Practicum may be completed in government, higher education or private industry setting. Directed toward senior undergraduates.
- **Grading:** 100% other evaluation. Job performance, self-evaluation

**PLPA 5003 Diseases of Forest and Shade Trees**

- **3 credit(s);**
- **Instructor:** Blanchette, Robert A
- **Description:** This course provides an overview of tree diseases in urban and forested areas. It covers diseases that have had significant impact on society, such as Dutch elm disease, oak wilt, chestnut blight, white pine blister rust, etc., as well as cankers, leaf diseases, root rot and other tree problems. A laboratory session each week enables students to get hands-on experience identifying disease agents, examining symptoms and learning appropriate control procedures. Emphasis will also be placed on ecological processes, biological and cultural control and host-parasite interactions. This course should be of value to anyone interested in biological sciences, natural resources and ecology. It is an essential class for individuals that will have a career in natural resources, but should also be useful to those interested in maintaining healthy trees at home, in urban areas or woodlands.
- **Style:** 50% Lecture, 20% Discussion, 30% Laboratory.
- **Grading:** 40% mid exam, 10% special projects, 10% written homework, 40% laboratory evaluation.
- **Exam Format:** Short answer, Short essay

**PLPA 5090 Issues in Plant Pathology**

- **1-4 credit(s), max credits 4, 1 repeat allowed;**
- **Instructor:** STAFF
- **Description:** Current topics and research in plant pathology. Directed at undergraduates (junior and senior) as well as graduate students. Consult Class Schedule or department for current offering.
- **Style:** 50% Lecture, 50% Discussion.
- **Grading:** 100% special projects. Depends on topic and instructor's discretion.

**PLPA 5103 Plant-Microbe Interactions**

- **3 credit(s);**
- **Instructor:** Bradeen, James M
- **Description:** Student may contact the instructor or department for information.

**PLPA 5999 Special Workshop in Plant Pathology**

- **1-4 credit(s), max credits 4, 1 repeat allowed;**
- **Instructor:** STAFF
- **Description:** Special workshops involving current issues and/or techniques (experimental and laboratory) in plant pathology. Directed towards senior undergraduates and graduate students.
- **Style:** Depends on the nature of the workshop experience.
- **Grading:** 100% special projects. Depends on the nature of the workshop experience.

**PLPA 8101 Causal Organisms of Plant Disease**

- **4 credit(s); prereq 5201 or equiv;**
- **Instructor:** Samac, Deborah A
- **Description:** Student may contact the instructor or department for information.

**PLPA 8103 Plant-Microbe Interactions**

- **3 credit(s); prereq intro course in biochem or plant physiology or equiv;**
- **Instructor:** Bradeen, James M
- **Description:** Student may contact the instructor or department for information.

**PLPA 8123 Research Ethics in Plant and Environmental Sciences**

- **S-N only, 0.5 credit(s); prereq Enrolled in a plant/environmental grad research prog; Credit will not be granted if credit has been received for: APSC 8123;**
- **Instructor:** Steffenson, Brian Joel
- **Description:** Student may contact the instructor or department for information.

**PLPA 8200 Seminar**

- **A-F only, 1 credit(s);**
- **Instructor:** Bradeen, James M
- **Description:** Student may contact the instructor or department for information.
PLSH 1102 Beginning Polish
5 credit(s); prereq 1101 or equiv;
Instructor: Polakiewicz,Leonard Anthony
Description: This course is second in a sequence of courses (Plsh 1101 and 1102) designed to develop basic proficiency in Polish in listening, speaking, reading, and writing, and to acquaint students with Polish culture. Students do regularly assigned grammar exercises, listen to audio tapes, and are required to participate in each class session through individual recitation, and whole-group and small-group interactive communicative activities. Two textbooks are used: Oscar Swan's "First Year Polish" and Leonard Polakiewicz's "Supplemental Materials for First Year Polish" Both textbooks are accompanied by audio tapes. As part of the four semester Polish language sequence, this course is designed to satisfy CLA language proficiency requirements. Target audience includes undergraduate and graduate students, particularly those interested in Eastern and Central European Area Studies, students who intend to engage in business in Poland and East-Central Europe, and those pursuing Slavic Studies.
Style: 40% Lecture. Recitation and interactive activities
Grading: 25% final exam, 35% quizzes, 30% class participation, 10% other evaluation. Final oral exam

Exam Format: Oral presentation, fill-ins, translations

PLSH 4102 Beginning Polish
3 credit(s); prereq 4101, [fourth sem course in another language or grad student];
Instructor: Polakiewicz,Leonard Anthony
Description: This course is designed to introduce students to Polish language and culture. It is the second in a sequence of four semester Polish language courses. Students will learn basic conversational Polish and be introduced to Polish culture. Two textbooks are used: "First Year Polish" by Oscar Swan and "Supplemental Materials for First Year Polish" by Leonard Polakiewicz. The course is designed to satisfy CLA language proficiency requirements.

Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.

Grading: 50% mid exam, 25% final exam, 25% reports/papers.

POL 1001 American Democracy in a Changing World
4 credit(s); meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Galdieri,Christopher J
Description: This course will introduce you to the American political system and the way politics happens in America. The basic questions we will address are: Why do we have the system of government that we do? How does this system of government work? What are the rules of the game? What are the consequences of this system of government in the lives of citizens? What is the relationship between our republican system of government and the public, and how does this relationship compare to our ideals of democracy? We will focus primarily on the federal system of government and national politics. We will pay particular attention to the historical contexts that have shaped our government, as we explore how a system conceived in the 1700s functions in the 21st Century. We will also discuss current events and issues that are important today. By the end of this course, you should be able to answer all of the questions listed above. You should have a solid foundation of knowledge for more advanced coursework in political science. And even if you never take another political science class again, you will be a better, more informed citizen!

Style: 75% Lecture. Discussion.
Grading: 20% mid exam, 25% final exam, 25% reports/papers, 10% class participation, 20% other evaluation. second midterm exam

Exam Format: multiple choice and short answer

POL 1025 Global Politics
4 credit(s); meets CLE req of International Perspect Theme;
Instructor: Carlson,Hans M
Description: This course will introduce the tools students need to begin to understand important historic and contemporary issues, processes, and events in global politics. The course is divided into three major sections: (1) international relations perspectives, (2) diplomatic history, and (3) global issues areas. The first section familiarizes students with some of the tools used in the analysis of international affairs, namely perspectives and levels of analysis. The second section provides students with an introduction to world history, including the evolution of nation-state and international system, World War I, World War II, the Cold War, and the aftermath of the Cold War. The third section is designed to help student understand important current global affairs. Specific topics covered by the class will include: Iraq war, globalization and financial crisis, genocide and humanitarian intervention, poverty and disease in Africa, and climate change and natural resource crisis.

Style: 60% Lecture. 30% Film/Video, 10% Discussion.
Grading: 40% mid exam, 40% final exam, 10% quizzes, 10% class participation.

Exam Format: Identifications; short paragraphs; essays
tools they need to begin to understand patterns and trends in global politics. Students will be introduced to international relations' theoretical traditions, but the course will focus primarily on explaining and understanding historical and especially current problems in world politics. It will explore, among other issues, the causes of war and peace, the limited use of force, humanitarian intervention, nuclear proliferation, nationalist conflict, international ethics, the politics of international trade and finance, foreign aid, globalization, the prospects for environmental cooperation, human rights norms, terrorism, and the future of world politics. By the end of the course, students should be familiar with all these issues and others, should have developed their own views on these much-debated questions, and should be able to apply basic analytical frameworks to answer them.

Style: 90% Lecture, 10% Discussion.
Grading: 50% mid exam, 45% final exam, 5% class participation.
Exam Format: Identifications; short paragraphs; essays

POL 1026 We and They: U.S. Foreign Policy
4 credit(s); Meets CLE req of International Perspect Theme;
Instructor: Sampson III, Martin Wright
Description: The course is a mixture of historical background, examination of various processes and institutions that determine US foreign policy, and selected foreign policy issues that are important in spring 2009. The course objectives are that people leave the course (1) aware of how the US foreign policy process operates and aware of major, long-running debates about Congressional-Congressional relationships in that process; (2) aware of the contours of public opinion as it relates to foreign policy; (3) conversant with major events and dates in the history of US foreign policy; and (4) able to think about how this knowledge relates to selected events of spring 2009 and beyond.
Style: 65% Lecture, 35% Discussion. Class attendance is important. Lectures and readings supplement each other.
Grading: 20% mid exam, 35% final exam, 35% reports/papers. 10% other evaluation. The course papers are based on readings assigned in the syllabus.
Exam Format: Combination essay and short answer. A handout sheet is provided a week in advance

POL 1054 Repression and Democracy Around the World
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Samuels, David Julian
Description: What is politics all about? In this course we focus on the "sources" of politics around the world - political institutions, political identities, and political interests - and the interplay between these three concepts. Doing so gives us a coherent answer to the question of what politics is all about. Political institutions focus on the way in which order is established and how power is distributed within a state. Thus we explore the emergence of political order, and differences between democracies and dictatorships. We also ask where democracy comes from, why some countries are more or less likely to be democratic, and why democracy sometimes breaks down into dictatorship. Political institutions mediate the way in which political identities and interests gain representation in the formal realm of politics. But what is identity? Political identity is the raw material from which individuals and groups construct their political interests. We explore various forms of political identity, and consider ways political scientists explain the "origin" of different forms of identity, including class, race, religion, and gender. Political interests have to do with what people want to get out of participating in politics. We first ask "How and why do people participate politically around the world?" looking first at peaceful forms of mobilization such as social movements and political parties. We then consider explanations for violent forms of political mobilization - civil war or a "clash of civilizations" - looking at the relationship between identities and interests as a source of conflict. We then ask two questions related to political economy: "Why are some countries rich and others poor?" taking a close look at the case of China, and "Why do some laissez-faire countries such as the USA or Japan. The course provides an integrated approach to understanding comparative politics. It uses critical cases from around the world to help students' hone their skills at recognizing and building their own arguments - how to formulate a thesis, connect statements logically, determine whether evidence is confirmatory or contradictory, and bring everything together - skills that can be applied in upper-division classes and in many careers.
Style: 75% Lecture, 15% Discussion, 10% Small Group Activities.
Grading: 30% mid exam, 30% final exam, 25% reports/papers, 15% written homework. There is one five-page paper, and ten short assignments
Exam Format: Blue Book: short and long answers

POL 1054H Honors: Repression and Democracy
4 credit(s);
Instructor: Samuels, David Julian
Description: Student may contact the instructor or department for information.

POL 1201 Political Ideas and Ideologies
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Mohammad-Zadeh, Kati
Description: This course will examine political theory against the backdrop of history, the surrounding literature, and the individual theorist's views on human nature and rational motivation. Along the way, we will examine the paradigm of ideological dogma. Ideologies legitimize politics, outline basic values, socialize individuals, facilitate communication, and mobilize people?in short, their study makes for a great entree into the study of political theory and the discipline of political science. We will examine how traditional left/right ideologies liberalism and conservatism, socialism and fascism?are shifting to adapt to new political realities.
Style: 50% Lecture, 50% Discussion.
Grading: Three non-cumulative exams at 25% each, all writing combined at 25%.
Exam Format: Short answer, brief essay.

POL 1201 Political Ideas and Ideologies
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Gimbel, Edward William
Description: In the course of our secondary educations most of us are taught something about the political history of the Western world. Far less common is the systematic study of the ideas that inform the major political movements in history: liberalism, conservatism, socialism, fascism?and the thinkers who first brought them into the collective consciousness. The first objective of this course will be to provide students, through the careful reading of texts in the history of political thought, with the conceptual framework necessary to understand and analyze this intellectual history-the history of ideas and ideologies in the West. Similarly, we all know how to read. But knowing how to read does not automatically make one a thoughtful, reflective, critical reader. These skills must be developed through their use in making sense of difficult texts. The second objective of this course will be to hone the critical reading skills of students through writing assignments that require careful reflection and through periodic reading assignments that deal specifically with the methods appropriate to the study of historical and philosophical texts. The ultimate objective of this course will be to train students in skills that pertain to but also go beyond the study of political ideas and ideologies. My hope is that this course will leave students better prepared to meet the demands of rigorous study and of engaged citizenship.
Style: 80% Lecture, 20% Discussion.
Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation.
Exam Format: short essay

POL 3070 Faculty-Supervised Individual Field Work
A-F only, 1-13 credit(s), max credits 13, 1 repeat allowed;
POL 308 Faculty-Supervised Individual Internships  
A-F only, 3-13 credit(s); max credits 15, 3 repeats allowed; 
prereq instr consent, dept consent; 
Instructor: Soper, Paul W  
Description: Students working in political or governmental internships may receive credit for academic work completed in association with their internship work. Students may receive 1 credit for every 3 hours (per week) of internship work. Academic work increases with increased hours worked. Assignments will include: weekly journal, 5-7 page essay, 10 page research paper. Acceptable internships include: US Congress, MN state legislature, federal, state, and local gov't agencies, as well as political parties, campaign organizations, and non-governmental advocacy groups. To enroll in this course, students must first arrange their internship, and then contact the instructor before the semester begins. Students who do not contact the instructor before the end of the first week of the semester will NOT be enrolled in this course.  
Style: Fieldwork/Participant-observation

POL 3085 Quantitative Analysis in Political Science  
A-F only, 4 credit(s); prereq 9 cr social sciences recommended; meets CLE req of Mathematical Thinking Core; 
Instructor: Fang, Songying  
Description: Political Science 3085 is an upper-level undergraduate introduction to the research methods used by political scientists to study political behavior and institutions. The objective of this class is to provide an introduction to the tools to interpret political phenomena from a systematic and analytical perspective. In this course, we will consider issues of research design and hypothesis formulation, study basic statistical techniques, and learn how to implement these methods and manage data with computer software. There is no mathematical prerequisite beyond high school algebra; however, it assumes that students have had at least two years of political science training.

POL 3210 Practicum  
2 credit(s), max credits 12, 6 repeats allowed; meets CLE req of Citizenship/Publ Ethics Theme; 
Instructor: Ve Lure, Christine Elizabe  
Description: Student may contact the instructor or department for information.

POL 3225 American Political Thought  
3 credit(s); meets CLE req of Citizenship/Publ Ethics Theme; 
Instructor: Gott, Katherine M  
Description: American political thought does not have a clear "canon" as other fields do and includes non-traditional forms of philosophical argument including speeches, articles, and statements. The class will be structured chronologically in terms of episodic "movements" and their criticisms. For example, the Federalist debate, Jacksonian democratization, the abolitionists, defenders of slavery, suffragettes, social Darwinists, Progressives, Feminists and the civil rights movement. These arguments have shaped and continue to influence our understanding about American government and its social institutions. As we read these arguments, I will help to place them into our historical context and point to their influence on contemporary political discussions. We will also spend a great deal of time on Tocqueville's Democracy in America the most comprehensive study of American democracy and its ideas about itself. A critical eye will be necessary as we wade through these difficult texts, which will question some of the ideas America holds most dear.  
Style: 50% Lecture, 10% Film/Video, 40% Discussion.  
Grading: 30% final exam, 60% reports/papers, 10% quizzes.  
Exam Format: Short answer.

POL 3306 Presidential Leadership and American Democracy  
3-4 credit(s), max credits 4, 1 repeat allowed; prereq 1001 or equiv, non-pol sci grad major or instr consent; credit will not be granted if credit has been received for: POL 5306; 
Instructor: Jacobs, Lawrence Rubin  
Description: U.S. presidents are in a ?no win? situation. Journalists and many Americans expect presidents to be both independent leaders that serve the ?national interest? and a democratic force that represents ?the people? against special interests. Presidents are commonly expected to be powerful forces that generate a prosperous economy and national security and yet are also situated in a system of checks and balances that hem them in. Presidents are looked to as the defender of America?s social order and yet they are often disruptive forces that challenge the social, economic, and political systems. Why do presidents persistently slip into these no-win situations? What are the president?s powers and what constraints do they face? This course will trace the political development of the presidency as well as explore its contemporary role in domestic and foreign policy. The course will consider these enduring themes in terms of the presidency?s place in the American constitutional order and its relationship with the mass public, the federal bureaucracy, and Congress.  
Style: 40% Lecture, 5% Film/Video, 30% Discussion, 15% Laboratory, 10% Student Presentation. In addition to dynamic, participatory lectures, the course relies on small group tutorials where students work together to critically analyze key puzzles in the presidency.  
Grading: 30% mid exam, 40% final exam, 30% reports/papers. Class participation is taken into account where there is discretion.  
Exam Format: Short answer and essay.

POL 3319 Education and the American Dream  
A-F only, 3 credit(s); meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;  
Instructor: Abernethy, Scott F  
Description: This course is intended as introduction to education politics and policy in the United States. It is designed for any student who might have an interest in exploring education, public policy, or American government. Topics will include equality of educational opportunity, educating democratic citizens, school finance, the role of political institutions in making educational policy, and efforts to reform and remake American education, including charter schools and private school vouchers. By the end of the course, students should have a basic understanding of the provision of education in the United States, including the ways in which education is governed and the institutions involved in that governance. Students should be able to critically reflect on the degree to which American education fulfills the sometimes-competing goals Americans have for our schools.  
Style: 55% Lecture, 25% Discussion, 20% Small Group Activities.  
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.  
Exam Format: essay, short essay

POL 3410 Topics in Comparative Politics: Globalization  
3 credit(s), max credits 9, 3 repeats allowed;  
Instructor: Ansell, Benjamin William  
Description: This course examines the impact of the global economy on the United States and other countries. The current financial crisis, the debate over immigration, the rising strength of the US dollar, and the cheap cost of iPods are all related to the way in which politicians and voters make decisions about how to deal with the international economy. In this class we study these political decisions in depth. Along the way we?ll answer a host of critical questions. Why was there a massive housing bubble and collapse? Why did the US government fail to develop a
"comprehensive immigration policy? Who benefits from NAFTA and other trade deals? How will the rise of China and India affect US businesses? How might global warming or terrorism affect the market?" With this in mind, the course will trace the economic history of the last and current century looking back in turn at three main areas: trade, finance, and immigration. The class has one midterm (33%) and a final exam (67%).

Grading: 33% mid exam, 67% final exam.

POL 3410 Topics in Comparative Politics: Holy Places & Conflict in Israel & Palestine
3 credit(s), max credits 9, 3 repeats allowed
Instructor: Reiter,Yitzhak Nissan

Description: This course will explore the interplay of religion and politics in the contemporary Middle East arena with a special focus on the Israeli-Palestinian conflict. It deals with the issue of holy places as a "political field?; the theories of "clash between civilizations? (Huntington) and "clash within civilizations? will be compared and contrasted with case studies from the Palestinian-Israeli context. Theoretical approaches to this subject will be supplemented by historical and practical case studies, with particular attention given to the Israeli-Palestinian-Arab dispute over the "Holy Land?. The student will explore how a holy space transforms into national symbol and vice versa and how they are being used in order to consolidate internal and external legitimacy and support for the respective parties in the conflict. Particular cases of conflict or toleration concerning holy sites will be analysed in a comparative perspective using other examples such as India, to examine the precipitants and causes of the outbreak of inter-communal settlement of violence and around holy places. The student will also be exposed to the various different narratives and the complexity of identity components in the intercommunal conflict between Israel and the Palestinians and between the Jewish majority and the Arab Muslim and Christian minorities inside Israel. The course will present the complexities and difficulties surrounding the peace process and the future prospects with a special attention given to the politics of sacred spaces and the role that the holy city of Jerusalem and its shrines play in the conflict.

POL 3410 Topics in Comparative Politics: Israel and Its Arab Minority
3 credit(s), max credits 9, 3 repeats allowed
Instructor: Reiter,Yitzhak Nissan

Description: The 1948 newborn state of Israel is unique in many of its aspects such as its constitutional and political system, its Jewish-Arab majority-minority relations as well as its relationship with the surrounding Arab states. As such it is a stimulating laboratory for both students and researchers in the social and political sciences. Our course deals with the special minority-majority relations between Jewish and Arab Israelis as part of a series of interlocking conflicts in the Middle East. This course examines the relationship between the Jewish majority and the Palestinian Arab minority in Israel as a Jewish and democratic nation-state. It elaborates on the complex factors that generate the dynamics of the ethno-national conflict within Israel between periods of escalation and times of de-intensification. This course is designed to explore politics with a special focus on the politics of identity. It begins with a discussion of theories of ethnic conflicts and their applicability on the Israeli special case. It follows with developing key issues influencing the Jewish-Arab conflict inside Israel such as: the contentious histories of Jews and Arabs prior to and after 1948; the official definition of the State as Jewish and democratic and its implications; government policies of land use and ownership and demography; and other issues such as the process of "Judaizing" the public space; the Palestinian uprisings, Israel minority riots of 2000, politics of identity between Palestinianization and Israeliization; the religious dimension of the competing nations; Arab Politics between integration and alienation; political agendas and voting patterns of the Arab population. Unpacking driving factors and forces which help to explain why, on the one hand, the minority challenges the majority by adopting confronting strategies and, on the other hand, the motivations of a majority group to choose between an inclusive strategy or a policy of coercion will be explored.

Viewing the internal conflict as an extension of the broader Palestinian-Israeli conflict will be analyzed including the Palestinian dimension as well as government policy versus its minority as two major factors which fundamentally influence the level and the direction of the conflict.

Grading: 90% reports/papers, 5% attendance, 5% class participation.

POL 3477 Political Development
3-4 credit(s), max credits 4, 1 repeat allowed; prereq 1054 or inst consent; Meets CLE req of Social Science Core;
Instructor: Caraway,Teri Lynn

Description: How can the vast disparities of wealth between countries be explained? Why have some countries in the post-colonial world, in particular those of East Asia, experienced stunning economic growth, while those in others parts of the world, most notably in Africa, been stuck in a development rut? This course will explore contending answers to these difficult but important questions. We will do so through discussions of different explanations of development and underdevelopment, examining these issues concretely in several countries, and discussing contemporary "hot topics" such as micro-credit, AIDS, and the resource curse.

Style: 45% Lecture, 15% Film/Video, 20% Discussion, 20% Small Group Activities.

Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation. For students taking 4 credits, the research paper=25%, participation 15%, midterm exam=15%, final exam=15%, and each essay 15%.

Exam Format: The exams will be multiple choice and short answer questions. The exams will focus on topics not covered in the short papers, so collectively the exams and the essays function as four midterms. The final exam is not cumulative.

POL 3766 Political Psychology of Mass Behavior
3 credit(s), prereq 1001 or equiv or inst consent; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Goren,Paul Nurullah

Description: This course will focus on whether or not ordinary citizens are capable of making competent political judgments. What do citizens know about politics? Do they know enough? How much is enough? Can they evaluate the state of the economy or the War in Iraq or the link between Saddam Hussein and the 9-11 terrorists in an unbiased fashion. We will address these types of questions. In addition, we will analyze the nature of liberal-conservative ideology; how widespread racial prejudice is, how personal and social values shape political choices; and other related questions. Finally, we will spend some time on how media - and media bias - affects what citizens see, think, and feel about politics.

POL 3810 Topics in International Relations and Foreign Policy: Puzzles in Everyday Life & Politics
3 credit(s), max credits 6;
Instructor: Shively,W Phillips

Description: This course will train your eyes for puzzles in the world around you, and provide you with several types of models by which they can be explained. One of the central readings, for example, will be Levitt and Duner?s Freakonomics, which covers a wide range of puzzles in everything from abortion policy to Sumo wrestling. A political example would be: Why the past several elections, the Republican candidate for President has done better among upper income groups than among the poor. However, the red states? that tend Republican in Presidential elections (Mississippi, Texas, Idaho, etc.) are mostly a good deal poorer than the blue states? that tend Democrat (Connecticut, Massachusetts, California, etc.) How can we explain this paradox?? We will work through many puzzles, and look at a variety of models that can help explain them. The format will be lecture, with breakout working groups. Many of the puzzles will be outside the realm of politics, but we will make a point of looking at a number of models that are frequently used in political science. Evaluation for the course will be by problem sets, two short papers, a midterm and a final exam. Some mathematics will be used for the course, but only through high school algebra (i.e., there is not a calculus requirement).
NOTE: We have included this special offering under the rubric "topics in international relations," but it is not especially focused on international relations. Since it spans all four of the normal subfields of political science, there was no obvious spot for it; we placed it under international relations for convenience.

POL 3835 International Relations
3 credit(s); meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Duval, Raymond D
Description: Student may contact the instructor or department for information.

POL 3835 International Relations
3 credit(s); meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Lee, David Pak Yue
Description: This course is designed to help students think analytically about some of the salient issues, processes, and complexities in the international system. The first part of the course, History and Theory, is devoted to understanding the trends and developments in the history of world politics, as well as the basic concepts, logics, assumptions, units of analysis, arguments, and relevance of major theories in the field of International Relations (IR). The second part, International Order and Disorder, is organized thematically. We will examine such issues as terrorism, the uses of force, war and peace, globalization, economic development and underdevelopment, ideas and grand strategies, and international institutions. Both parts of the course reinforce one another and should not be viewed separately, except as a matter of pedagogy and organization. Unlike Pol 1025 Global Politics, this course will be more theoretical in nature, even as it addresses relevant international issues both past and present.

POL 3873W Global Citizenship and International Ethics
3 credit(s); meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing intensive;
Instructor: Komen, Jonneke
Description: What does it mean to be a global citizen? What ethical standards should guide our behavior? In this class we will use case studies on human rights, women's rights, environmental politics, indigenous rights, and inequality (among others) to examine the global ethical responsibilities of citizens, public officials, international organizations, and transnational social movements in global politics. During the semester, we will examine the responsibilities of the international community in the face of genocide. We will explore the dilemmas of humanitarian intervention and the politics of foreign aid and relief work. We will look at ethical and political questions concerning environmental protection and privatization; global inequality and transnational corporations. Throughout the class, we will reflect on what it means to listen to others and speak for others.
Style: 30% Lecture, 10% Film/Video, 30% Discussion, 20% Small Group Activities, 5% Guest Speakers, 5% Web Based

POL 4210 Topics in Political Theory: Politics of Reconciliation
A-F only, 3 credit(s), max credits 6;
Instructor: Guisan, Catherine B.
Description: The Politics of Reconciliation Political reconciliation has become a major goal in domestic and international politics since the end of the Cold War in 1989. But what does it mean? While there is much talk of the need for reconciliation in Iraq, it is not clear who should be involved in this process. Iraqis only? Neighboring countries or the US also? This course will draw both from political theory and empirical studies to ask whether we are witnessing efforts to bring final resolution to long-standing conflicts today in the world. Or should we rather accept that reconciliation is at best a fragile, temporary equilibrium between opposite political forces that must be reenacted with each passing generation? Is political reconciliation a process that rests on religious faith? Or could it/should it be motivated by political conviction only, or economic interest? Is there a dark side to reconciliation that undermines justice? While there is no one right answer to these questions, this course offers a thorough introduction to the many ways of thinking and acting out political reconciliation. We will read the texts of great thinkers, Hegel, Marx, J.S. Mill, and Hannah Arendt, and of major actors, M.K. Gandhi, Martin Luther King Jr. and Desmond A. Tutu. We will study reconciliation processes in India, South Africa, between France and Germany and in Central Europe, and ponder the aftermath of 9/11 in this country and beyond. This course will also help you weigh the challenges of engaging in reconciliatory practices and develop your own thinking on what it means to be an active citizen in times of strife. Format: Lectures and discussions, occasional guest speakers and video clips. Target audience: Juniors and seniors, students interested in political theory, international affairs and political action. Grades: Your work will be assessed on the basis of 2 exams, 5 one-page in-class critical responses to readings, and participation in class. The exams will be part ID questions and part short essays. For the full syllabus, e-mail the instructor Dr. Catherine Guisan at <guis0001@umn.edu>
Style: 40% Lecture, 10% Film/Video, 25% Discussion, 15% Small Group Activities, 10% Guest Speakers.
Grading: 30% mid exam, 35% final exam, 25% reports/papers, 10% class participation.
Exam Format: ID questions and short essays

POL 4275 Contemporary Political Thought
3 credit(s); prereq 1201 recommended;
Instructor: Luxon, Nancy
Description: Sex, Power, Money, Violence: Political theory from the early 20th century onwards faces challenges in framing the conflicts and contestations that define politics. Drawing on the theoretical frameworks offered by Shklar, Berlin, Foucault, Habermas, and Taylor, this course will explore contemporary problems of political violence, sex, money, and power. Further readings will include works by Hannah Arendt, Frantz Fanon, WEB Du Bois, Judith Butler, Antonio Negri and others.
Style: 60% Lecture, 40% Discussion.
Grading: 60% reports/papers, 30% reflection paper, 10% in-class participation.

POL 4410 Topics in Comparative Politics: Families, Sex, & Children
3 credit(s), max credits 6;
Instructor: Kelliher, Daniel R
Description: Fights about family, sex, and children in contemporary politics. Topics will include: (1) Sex: power in sexual relationships, sexual elements of political ideologies, sexual freedom & the state. (2) Who can make a family: same-sex marriage, teenaged childbearing, polygamy. (3) Children: child soldiers, child prostitution, human trafficking, child-friendly policies, sex-selective abortion & the "missing girls" problem. (4) Family survival: financial crisis, taxation, bankruptcy, divorce, social support for families, childcare, family leave. (5) Electoral politics: families and electoral behavior, political campaigns & manipulation of images of the family.
Style: 60% Lecture, 10% Film/Video, 30% Discussion.
Grading: 50% reports/papers, 30% quizzes, 20% class participation.

POL 4461W European Government and Politics
4 credit(s), max credits 7; prereq 1054 or 3051 or non-pol sci grad or instr consent; Credit will not be granted if credit has been received for: POL 5461; Meets CLE req of Writing Intensive;
Instructor: Klages, Elizabeth Patrici
Description: Student may contact the instructor or department for information.

POL 4478W Contemporary Politics in Africa and the Colonial Legacy
4 credit(s); prereq 1054 or 3051 or non-pol sci grad or instr consent ; Credit will not be granted if credit has been received for: POL 5478; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Nimtz Jr, August H
Description: Student may contact the instructor or department for information.
POL 4502W The Supreme Court, Civil Liberties, and Civil Rights
3 credit(s); prerequisite 1001 or 1002 or equiv or [non-pol sci] grad major or instr consent; Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Mohammad-Zadeh, Kati
Description: The most cherished and fundamental principles of American politics, as well as our most divisive political controversies, are debated and contested in the forum of constitutional law. This semester will focus on civil rights and liberties. The politics and workings of the Supreme Court will be the initial and underlying theme throughout the course. We will discuss how the Court grapples with religion, speech, assembly, obscenity, the press, privacy and various types of discrimination. Not surprisingly, an examination of constitutional law leads us to an examination of some fairly dramatic events in American history. But it also requires us to think about more general questions, such as the proper role of courts in our political system and the expansion of federal control over policies that traditionally had been the province of state governments. This may be the first time most of you have attempted the study of law. As such, we will spend a good deal of time reviewing the structures and norms of the judicial system. One of the primary goals of this course will be to acquaint you with the workings and politics of the Supreme Court. The reading for this course is not overwhelming in quantity, but rather quite rigorous in content. Again, this will be the first time many of you have attempted to read and understand case law. As such, we will carefully review how to read a case and how to brief it. I have purposefully chosen our textbook for this course because it doesn’t just contain the cases, but also the political and historical context for the cases. This should be extremely helpful to your overall understanding of the development of constitutional interpretation.
Grading: 2 Exams 5 case briefs due throughout the semester 1 paper

POL 4773W Interest Groups, Social Movements and Politics of Race, Class, and Gender
3 credit(s); Meets CLE req of Writing Intensive; Instructor: Strolovitch, Dara
Description: What role do interest groups, social movements, play in the United States? This course examines interest groups and social movements as agents of democratic representation and political change in American politics and policy-making. We will examine a wide array of organizations and movements, emphasizing in particular those that represent groups such as racial and ethnic minorities, women, religious conservatives, lesbian, gay, bisexual, and transgender people, and low-income people. We will also address a range of fundamental questions about the emergence, evolution, and impact of interest groups and social movements; about the role of the media; about the implications of developments such as globalization, the war on terror, and campaign finance reform; about the differences among interest groups, social movements, and other forms of resistance; about the ways in which the agendas, identities, and participants associated with different movements intersect and overlap with one another; and about the relationships between movements and more conventional forms of politics. This course is writing-intensive, and writing instruction will play an important and integral role in the class. Consequently, in addition to addressing substantive topics, we will also engage in activities such as research and writing workshops, proposal writing, shopping work, and paper consultations.
Style: 25% Lecture, 5% Film/Video, 40% Discussion, 20% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 15% mid exam, 15% final exam, 35% reports/papers, 5% in-class presentation, 20% class participation, 10% other evaluation. Other evaluation = readings responses

POL 4900W Honors: Senior Paper
A-F only, 1 credit(s); prerequisite Honors, pol sr, instr consent; Instructor: Kellinger, Daniel R
Description: This course exists to provide credit for Political Science honors students who are completing their senior projects in fulfillment of either cum laude or magna cum laude level of honors. These students should register for one credit of 4900V in the year that they complete their senior papers. (NOTE: Students who in the summa cum laude track should not take 4900V, but 3110V for four credits.)
Exam Format: 100% reports/papers.
Grading: submitted for evaluation/advice by instructor, then revised for final submission.

POL 5210 Topics in Political Theory: Politics of Reconciliation
3 credit(s); max credits 9, 3 repeats allowed; Instructor: Guisan, Catherine B
Description: The Politics of Reconciliation Political reconciliation has become a major goal in domestic and international politics since the end of the Cold War in 1989. But what does it mean? While there is much talk of the need for reconciliation in Iraq, it is not clear who should be involved in this process. Iraqis only? Neighboring countries or the US also? This course will draw both from political theory and empirical studies to ask whether we are witnessing efforts to bring final resolution to long-standing conflicts today in the world. Should we rather accept that reconciliation is at best a fragile, temporary equilibrium between opposite political forces that must be reenacted with each passing generation? Is political reconciliation a process that rests on religious faith? Or could it/should it be motivated by political cooperation only, or economic interest? Is there a rare side to...
reconciliation that undermines justice? While there is no one right answer to these questions, this course offers a thorough introduction to the many ways of thinking and acting out political reconciliation. We will read the texts of great thinkers, Hegel, Marx, J.S. Mill, and Hannah Arendt, and of major actors, M.K. Gandhi, Martin Luther King Jr. and Desmond A. Tutu. We will study reconciliation processes in India, South Africa, between France and Germany and in Central Europe, and ponder the aftermath of 9/11 in this country and beyond. This course will also help you weigh the challenges of engaging in reconciliatory practices and develop your own thinking on what it means to be an active citizen in times of strife. Format: Lectures and discussions, occasional guest speakers and video clips. Target audience: Juniors and seniors, students interested in political theory, international affairs and political action. Grades: Your work will be assessed on the basis of 2 exams, 5 one-page in-class critical responses to readings, and participation in class. The exams will be part ID questions and part short essays. For the full syllabus, e-mail the instructor Dr. Catherine Guisan at <cguisan001@umn.edu>

**Style:** 40% Lecture, 10% Film/Video, 25% Discussion, 15% Small Group Activities, 10% Guest Speakers.

**Grading:** 30% mid exam, 35% final exam, 25% reports/papers, 10% class participation.

**Exam Format:** ID questions and short essays

**POL 5275 Contemporary Political Thought**

3 credit(s); prerequisite will not be granted if credited received for: 4275; grad student; 1201 recommended;

Instructor: Luxon, Nancy

**Description:** Sex, Power, Money, Violence: Political theory from the early 20th century onwards faces challenges in framing the conflicts and contentions that define politics. Drawing on the theoretical frameworks offered by Shklar, Berlin, Foucault, Habermas, and Taylor, this course will explore contemporary problems of political violence, sex, money, and power. Further readings will include works by Hannah Arendt, Frantz Fanon, WEB Du Bois, Judith Butler, Antonio Negri and others.

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 60% reports/papers, 30% reflection paper, 10% in-class presentation.

**POL 5461 European Government and Politics**

4 credit(s); prerequisite grad student or instr consent; Credit will not be granted if credit has been received for: 4461W;

Instructor: Klages, Elizabeth Patrici

**Description:** Student may contact the instructor or department for information.

**POL 5478 Contemporary Politics in Africa and the Colonial Legacy**

4 credit(s); prerequisite grad student or instr consent; Credit will not be granted if credit has been received for: 4478W;

Instructor: Nimtz Jr., August H

**Description:** Student may contact the instructor or department for information.

**POL 5481 Governments and Markets**

S-N only, 3-4 credit(s); prerequisite will not be granted if credit received for: 4481; 1054 or 3051 or non-pol sci grad student or instr consent;

Instructor: Freeman, John Roy

**Description:** Student may contact the instructor or department for information.

**POL 5502 Supreme Court, Civil Liberties, and Civil Rights**

3 credit(s); prerequisite will not be granted if credit received for: 4502; 1001 or 1002 or equiv or non-pol sci grad student or instr consent;

Instructor: Mohammad-Zadeh, Kati

**Description:** The most cherished and fundamental principles of American politics, as well as our most divisive political controversies, are debated and contested in the forum of constitutional law. This semester will focus on civil rights and liberties. The politics and workings of the Supreme Court will be the initial and underlying theme throughout the course. We will discuss how the Court grapples with religion, speech, assembly, obscenity, the press, privacy and various types of discrimination. Not surprisingly, an examination of constitutional law leads us to an examination of some fairly dramatic events in American history. But it also requires us to think about more general questions, such as the proper role of courts in our political system and the expansion of federal control over policies that traditionally had been the province of state governments. This may be the first time most of you have attempted the study of law. As such, we will spend a good deal of time reviewing the structures and norms of the judicial system. One of the primary goals of this course will be to acquaint you with the workings and politics of the Supreme Court. The reading for this course is not overwhelming in quantity, but rather quite rigorous in content. Again, this will be the first time many of you have attempted to read and understand case law. As such, we will carefully review how to read a case and how to brief it. I have purposefully chosen our textbook for this course because it doesn't just contain the cases, but also the political and historical context for the cases. This should be extremely helpful to your overall understanding of the development of constitutional interpretation.

**Grading:** 2 Exams, 5 case briefs due throughout the semester; 1 paper

**POL 8060 Research Proseminar in Political Science**

S-N only, 2 credit(s), max credits 8, 4 repeats allowed; prerequisite Pol sci grad student;

Instructor: Strolovitch, Dara

**Description:** Student may contact the instructor or department for information.

**POL 8060 Research Proseminar in Political Science**

S-N only, 2 credit(s), max credits 8, 4 repeats allowed; prerequisite Pol sci grad student;

Instructor: Krebs, Ronald R

**Description:** Student may contact the instructor or department for information.

**POL 8060 Research Proseminar in Political Science**

S-N only, 2 credit(s), max credits 8, 4 repeats allowed; prerequisite Pol sci grad student;

Instructor: Caraway, Teri Lynn

**Description:** Student may contact the instructor or department for information.

**POL 8060 Research Proseminar in Political Science**

S-N only, 2 credit(s), max credits 8, 4 repeats allowed; prerequisite Pol sci grad student;

Instructor: Fang, Songying

**Description:** Student may contact the instructor or department for information.

**POL 8060 Research Proseminar in Political Science**

S-N only, 2 credit(s), max credits 8, 4 repeats allowed; prerequisite Pol sci grad student;

Instructor: Vazquez-Arroyo, Antonio Y

**Description:** Student may contact the instructor or department for information.

**POL 8070 Advanced Research and Writing in Political Science**

S-N only, 2 credit(s), max credits 4; prerequisite ABD student in Pol sci;

Instructor: Sullivan, John L

**Description:** Student may contact the instructor or department for information.

**POL 8070 Advanced Research and Writing in Political Science**

S-N only, 2 credit(s), max credits 4; prerequisite ABD student in Pol sci;

Instructor: Duvall, Raymond D

**Description:** Student may contact the instructor or department for information.

**POL 8105 Professional Development II**

S-N only, 1 credit(s), max credits 2; prerequisite Pol sci student, ABD, dept consent;
POL 8123 Introduction to Quantitative Political Research
A-F only, 3 credit(s); prereq Pol sci grad student or instr consent;
Instructor: Federico, Christopher Michael
Description: Student may contact the instructor or department for information.

POL 8160 Topics in Models and Methods: Advanced Bayesian Methods
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Grad pol sci major or instr consent;
Instructor: Freeman, John Roy
Description: Student may contact the instructor or department for information.

POL 8160 Topics in Models and Methods: Spatial Modeling
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Grad pol sci major or instr consent;
Instructor: Freeman, John Roy
Description: Student may contact the instructor or department for information.

POL 8160 Topics in Models and Methods: Intro to Bayesian Methods
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Grad pol sci major or instr consent;
Instructor: Freeman, John Roy
Description: Student may contact the instructor or department for information.

POL 8260 Topics in Political Theory: Enlightenment, Catastrophe, & Memory
3 credit(s), max credits 6; prereq Grad pol sci major or instr consent;
Instructor: Vazquez-Arroyo, Antonio Y
Description: Student may contact the instructor or department for information.

POL 8302 Public Opinion and Political Participation
3 credit(s); prereq Grad pol sci major or instr consent;
Instructor: Goren, Paul Nurullah
Description: Student may contact the instructor or department for information.

POL 8308 Proseminar in Political Psychology II
S-N only, 1 credit(s); prereq Grad pol sci major or pol psych minor or instr consent; Credit will not be granted if credit has been received for: PSY 8212;
Instructor: Sullivan, John L
Description: Student may contact the instructor or department for information.

POL 8360 Topics in American Politics: Women, Sex, & Gender in American Politics
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad pol sci major or instr consent;
Instructor: Strolovitch, Dara
Description: This course examines the ways in which women, sex, and gender shape and are shaped by American politics and public policy. We explore the history, approaches, findings, and controversies in research about women, sex, and gender in American politics and political science from a range of theoretical and methodological approaches. We will examine work within several subfields of American politics (e.g., public opinion, voting behavior, electoral politics, legislative studies, public policy, political development, public law, interest groups and social movements). We will also explore feminist theories and methodologies, important work from other disciplines, and research that does not fit neatly into traditional categories within political science, considering the implications of this "messiness" for the study of gender and politics. Throughout the course, we will analyze the ways in which sex, sexuality, and gender-based issues and discrimination intersect with other politically-relevant categories, identities, and forms of marginalization, such as race, ethnicity, class, and ideological and partisan identification.
Grading: Students will write a series of short reaction papers, make short presentations, and write a research paper.

POL 8360 Topics in American Politics: Democracy, Inequality, and Public Policy
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad pol sci major or instr consent;
Instructor: Krebs, Ronald R
Description: Students may contact the instructor or department for information.

POL 8402 International Security
3 credit(s); prereq Grad pol sci major or instr consent;
Instructor: Krebs, Ronald R
Description: Students may contact the instructor or department for information.

POL 8460 Topics in International Relations: Methods and Models in International and Comparativ
3 credit(s), max credits 6; prereq Grad pol sci major or instr consent;
Instructor: Ansell, Benjamin William
Description: Students may contact the instructor or department for information.

POL 8601 Introduction to Comparative Politics
3 credit(s); prereq Grad pol sci major;
Instructor: Samuels, David Julian
Description: Students may contact the instructor or department for information.

POL 8660 Topics in Comparative Politics: Methods and Models in International and Comparativ
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad pol sci major or instr consent;
Instructor: Ansell, Benjamin William
Description: Students may contact the instructor or department for information.

PORT 1102 Beginning Portuguese
5 credit(s); prereq 1101 or instr consent;
Instructor: STAFF
Style: 15% Lecture, 60% Discussion. in-class exercise
Grading: 15% mid exam, 25% final exam, 20% quizzes, 10% in-class participation, 10% other evaluation. compositions

PORT 1104 Intermediate Portuguese
5 credit(s); prereq 1103 or instr consent;
Instructor: STAFF
Description: Continuation of 1103. This intermediate level Portuguese language course focuses on the acquisition of basic skills (Speaking, Comprehension, Reading, and Writing). Cultural aspects: Brazil, Portugal, and/or Lusophone Africa.
Style: 15% Lecture, 60% Discussion. in-class exercise
Grading: 15% mid exam, 25% final exam, 20% quizzes, 10% in-class presentation, 20% laboratory evaluation, 10% other evaluation. compositions

PORT 3001 Portuguese for Spanish Speakers
4 credit(s); prereq [SPAN 3015, [LPE or PORT LPE]] or [speaker of other Romance language, instr consent];
Instructor: STAFF  
Description: Study of Portuguese based on student knowledge of Spanish (speakers of other Romance languages are allowed with instructor permission). Contrastive approach to the phonetic and morpho-syntactic structures of Portuguese. Cultural components will focus on Brazil, Portugal, and/or Portuguese-speaking Africa.  
Style: 20% Lecture, 60% Discussion. in-class writing  
Grading: 15% mid exam, 20% final exam, 20% reports/papers, 10% quizzes, 15% in-class presentation, 20% class participation.  

PORT 5003 Portuguese Conversation and Composition  
4 credit(s); prereq 1104, 3001, Port LPE;  
Instructor: STAFF  
Description: This course will focus on grammar review through practical activities in order to encourage conversation. There will also be readings, videos, and discussions that will center on Brazilian and/or Portuguese, and/or Lusophone African cultures. The main objective is for students to improve all four language skills (comprehension, reading, speaking, and writing).  

PORT 3502W Foundations of Brazilian Literature and Culture  
3 credit(s); prereq 3003 or equiv; Credit will not be granted if credit has been received for: PORT 3500V; Meets CLE req of Writing Intensive;  
Instructor: Ostrom,Katherine Ann  
Description: This course will offer a vision of Brazilian culture, history, and politics, as seen primarily through foundational literary works from the nineteenth and twentieth centuries. We will focus on the time period immediately after the arrival of the Portuguese royal family to Brazil in 1808 until today, a time when globalization is re-defining territorial, economic, and political borders, while the mass-media plays a powerful homogenizing role from a cultural standpoint. Aside from novels, short stories, poetry, and critical readings, our course will also include several paradigmatic films that will help us sort through the main themes to be explored: national identity, authoritarianism, the role of women, social exclusion, dictatorship, and modernization.  

PORT 3910 Topics in Lusophone Literatures and Cultures  
3 credit(s), max credits 9, 3 repeats allowed; Credit will not be granted if credit has been received for: PORT 3910H;  
Instructor: Arenas,Fernando  
Description: Popular Music in the Portuguese-Speaking World  
- This course is an introduction to the popular music of Brazil, Portugal, Cape Verde, and Angola. We will study the emergence of contemporary popular music in a variety of forms while paying close attention to the specific historical, socio-cultural, and political forces that have shaped its formation in these specific countries. Furthermore, we will explore the impact of globalization on national popular music forms throughout the Portuguese-speaking world and their respective contributions to transnational genres such as jazz, Latin music, and world music. Our analytical focus will be centered on poetry and song lyrics, musical form (melody, rhythm, instruments, sources of influence), as well as social context and the political economy of popular music dissemination (nationally and internationally). The following will be some of the main musical forms studied throughout this course: Brazil (samba, bossa nova, and MPB); Portugal (fado); Cape Verde (morna, koladera, funana, batuku); and Angola (semba, kuduro). Class sessions will be organized around lectures, discussion, music listening, and film viewing.  
The course will be taught entirely in Portuguese.  
Style: 50% Lecture, 10% Film/Video, 40% Discussion.  
Grading: 60% reports/papers, 40% in-class presentation.  

PORT 5530 Brazilian Literary and Cultural Studies  
3 credit(s), max credits 9, 3 repeats allowed;  
Instructor: STAFF  
Description: MODERN AND CONTEMPORARY BRAZILIAN CULTURE The main purpose of this course is to help Graduate and Undergraduate students engage in reflective Brazilian cultural studies, by providing them with an understanding of cultural history, considering recent research challenges. The latter will be accomplished through a series of lectures referring to important moments of Brazilian political, ideological and aesthetic debates. This is pertinent in present times, when issues of power, canon and ethics have become increasingly complex. The course provides an investigation of the Brazilian cultural system and considers opics in comparative and sociological perspectives. We will review traditional statements referring to Brazilian social formation (Paulo Prado, Sergio Buarque, Gilberto Freyre, Oliveira Vianna, Antonio Candido, Florestan Fernandes and others). The works discussed will provide elements to study cultural unity and diversity. In selected bibliography, we may emphasize recent contributions on concepts such as nationalism, identity, modernity and ethics; the position of Brazil in the Lusophone world and in Latin America; sociological approaches to violence; historical studies referring to intellectuals. These topics will work as resources for studying images of Brazil. We will survey some artists, writers, filmmakers and musicians, and also consider the role of the national in which these contributions develop reflective and critical perspectives to discuss Brazilian history, considering categories such as ethnicity, sexuality, race, and religion.  

PORT 5970 Directed Readings  
3 credit(s), max credits 9, 3 repeats allowed; prereq MA or PhD candidate, instr consent, dept consent, college consent;  
Instructor: STAFF  
Description: Lusophone Studies (Portuguese-speaking Africa, Brazil and Portugal) Thematic areas not covered in other courses. Students submit reading plans for particular topics, figures, periods or issues.  

PORT 5990 Directed Research  
1-4 credit(s), max credits 9, 9 repeats allowed; prereq instr consent, dept consent, college consent;  
Instructor: Arenas,Fernando  
Description: Student may contact the instructor or department for information.  

PORT 5990 Directed Research  
1-4 credit(s), max credits 9, 9 repeats allowed; prereq instr consent, dept consent, college consent;  
Instructor: Ferreira,Ana Paula  
Description: Student may contact the instructor or department for information.  

Post Secondary Teaching and Learning  
140 Appleby Hall  

PSTL 721 Introductory Algebra  
0 credit(s); prereq [4 cr equiv], General Math Placement Test  
credit will not be granted if credit received for: 0616, 0617, 0621, 0712, 0713, 0716, 0717, 0722, 1435;;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.  

PSTL 722 Introductory Algebra (Computer)  
0 credit(s); prereq [4 cr equiv], General Math Placement Test  
credit will not be granted if credit received for: 0616, 0617, 0621, 0712, 0713, 0716, 0717, 0721, 1435;  
Instructor: Robertson,Douglas Frederick  
Description: A first course in algebra taught using computer-mediated instruction. You learn new material using interactive multimedia computer software. There are no lectures. You will be on the computer 70% of each class period. The rest of the time you will be working on algebra problems, taking exams, and working individually with the instructor. This course is not self-paced; you must follow a set schedule for checkpoints, homework, and exams. Course covers concepts and procedures of elementary algebra at a level of difficulty and abstraction geared for students enrolled at a research university. To be successful you must enter the course being able to work with
whole numbers, fractions, decimals, and percents. Course content includes real number (signed number) operations, equations, inequalities, absolute value, rectangular (x-y) graphs, systems, radicals, equations, exponents, polynomials, factoring, rational expressions and equations, and word problems. Hourly time commitment per week: Class: 4; Reading: 1; Writing: 0; Studying: 2; Homework: 6. Homework assignments ask you to work 10-40 problems each class day. Testing includes daily checkpoints (one question mini-quizzes), four 50 minute closed-book exams and a two hour comprehensive final. Course prepares you for Intermediate Algebra, PsTL 0732.

Style: 30% Discussion, 70% Web Based. Computer-mediated instruction, working on problems, interacting with instructor
Grading: 60% mid exam, 20% final exam, 10% quizzes, 10% written homework.
Exam Format: All algebra problems to solve (e.g. Solve this equation); Exams are closed book but calculators are allowed.

PSTL 731 Intermediate Algebra
0 credit(s); prereq 4 cr equiv or grade of at least C in [0713 or 0717 or 0721 or 0722] or General Math Placement Test credit will not be granted if credit received for: 0618, 0625, 0631, 0732, 1443, 1444, 1445, 1446; Credit will not be granted if credit has been received for: PSTL 732;
Instructor: Kinney, Donald Patrick
Description: Student may contact the instructor or department for information.

PSTL 732 Intermediate Algebra (Computer)
0 credit(s); prereq 4 cr equiv or grade of at least C in [0713 or 0717 or 0721 or 0722] or General Math Placement Test credit will not be granted if credit received for: 0618, 0625, 0631, 0731, 1443, 1444, 1445, 1446; Credit will not be granted if credit has been received for: PSTL 731;
Instructor: Robertson, Douglas Frederick
Description: A second course in algebra taught using computer-mediated instruction. You learn new material using interactive multimedia computer software. There are no lectures. You will be on the computer 70% of each class period. The rest of the time you will be working on algebra problems, taking exams, and working individually with the instructor. This course is not self-paced; you must follow a set schedule for checkpoints, homework, and exams. Course covers concepts and procedures of intermediate algebra at a level of difficulty and abstraction geared for students enrolled at a research university. To be successful you must enter the course being able to work with expressions, equations, exponents, polynomials, factoring, rational expressions and equations, and graphs. Course content includes roots, radicals, linear, quadratic, exponential, and logarithmic functions, and word problems. Hourly time commitment per week: Class: 4; Reading: 1; Writing: 0; Studying: 2; Homework: 6. Homework assignments ask you to work 10-40 problems each class day. Testing includes daily mini-quizzes, four 50 minute closed-book exams and a two hour comprehensive final. Calculators are allowed. Course prepares you for Math 1031 College Algebra or Math 1051 Precalculus I, as well as PsTL 1004 Statistics and PsTL 1006 Mathematical Modeling and Prediction (both of which satisfy the CLE Mathematical Thinking requirement).
Style: 30% Discussion, 70% Web Based. Computer-mediated instruction, work individually, work one-on-one with instructor
Grading: 60% mid exam, 20% final exam, 10% quizzes, 10% written homework.
Exam Format: Exams are problem oriented (e.g., Solve this equation)

PSTL 1004 Statistics
4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;
Instructor: Loch, Suzanne Yvette
Description: This course is an introduction to statistics that emphasizes problem solving and decision making through the collection, analysis, and interpretation of data. Course topics include the organization and presentation of data, summary statistics, sampling methodology, sampling distributions, probability, estimation, correlation, hypothesis testing, contingency tables, and chi-square analysis. The instructional approach includes the use of small activites, computer statistics software, computer simulations, in-depth projects, writing assignments, demonstrations, and lots of discussion and problem solving based on practical examples. Students learn how to analyze and interpret quantitative information, to use statistical thinking, and to communicate using the language of statistics. Students will develop a level of statistical literacy that enables them to critically assess information encountered in the media and other sources. This course will be of particular interest to undergraduate non-majors who want to fulfill the CLE requirement in Mathematical Thinking.
Style: 40% Lecture, 9% Discussion, 50% Small Group Activities, 1% Student Presentation.
Grading: 25% reports/papers, 55% additional semester exams, 20% problem solving. The 20% of the course grade for problem solving involves course work done in the classroom - most assignments will be found in the course packet.
Exam Format: Exams are a combination of short answer questions, calculations and graphing, and multiple choice questions.

PSTL 1004 Statistics
4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;
Instructor: Duranyczk, Irene M
Description: We will explore statistics in four ways: 1) exploring the use of statistics and statistical techniques including the organization and presentation of data, summary statistics, sampling, sampling distributions, probability, estimation, correlation, hypothesis testing, contingency tables, and chi-square analysis; 2) analyzing statistical reasoning associated with democracy and citizenship in the United States; 3) demonstrating the use of statistics when considering how race, class, gender, disability, religion, immigration, and sexual orientation in the U.S. can "position" people for democratic citizenship or disengagement; and 4) communicating and problem solving in words and mathematical presentations statistical principles, concepts, and their application through the collection, analysis, and interpretation of data. This class will primarily use small group discussion and activities to explore and practice the principles of statistics. Statistical software will be used weekly for in-class and out-of-class activities. There will be weekly reading, writing and mathematical assignments to prepare for class discussions and activities. In class activities will culminate in an in-depth small group project. As appropriate course material and supplemental materials will be posted in Web Vista. Upon successful completion of this course you should have improved skills in critical thinking and in constructing, analyzing, and interpreting statistical presentations of data and phenomena. Students will develop a level of statistical literacy that enables them to critically assess information encountered in the media and other sources. This course will be of particular interest to undergraduates who want to fulfill the CLE requirement in Mathematical Thinking.
Style: 25% Lecture, 20% Discussion, 45% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 20% reports/papers, 10% quizzes, 10% written homework, 10% journal, 10% reflection paper, 10% in-class presentation. Application of knowledge and problem solving are a part of the assignments, exams, papers, and presentations.
Exam Format: Exams are a combination of short answer questions, problem solving, calculations, graphing and may include some multiple choice.

PSTL 1006 Mathematical Modeling and Prediction
3 credit(s); prereq Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instr consent; Meets CLE req of Mathematical Thinking Core;
Instructor: Stottlemeyer PhD, Janet
Description: This course is part of a learning community with
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credits</th>
<th>Exam Format</th>
<th>Grading</th>
<th>Style</th>
<th>Core Concepts</th>
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</thead>
<tbody>
<tr>
<td>PSTL 1006</td>
<td>Mathematical Modeling and Prediction</td>
<td></td>
<td></td>
<td>3 credit(s); prerequisite Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instructor consent;</td>
<td>2</td>
<td>Multiple choice</td>
<td>20% final exam, 40% special projects, 10% written homework, 30% additional semester exams.</td>
<td>80% Lecture, 20% Discussion.</td>
<td>20% final exam, 40% special projects, 10% written homework, 30% additional semester exams.</td>
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<tr>
<td>PSTL 1051</td>
<td>Editing for Writers</td>
<td>STAFF</td>
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<td>2 credit(s);</td>
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<tr>
<td>PSTL 1131</td>
<td>Principles of Biological Science</td>
<td></td>
<td></td>
<td>4 credit(s); Meets CLE req of Biological Sciences/Lab Core;</td>
<td>4</td>
<td>Multiple choice</td>
<td>20% Lecture, 20% Discussion, 30% Laboratory, 30% Small Group Activities.</td>
<td>20% Lecture, 20% Discussion</td>
<td>2</td>
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<tr>
<td>PSTL 1135</td>
<td>Essentials of Human Anatomy and Physiology</td>
<td></td>
<td></td>
<td>4 credit(s); prerequisite Concurrent registration in biology course, adviser approval;</td>
<td>4</td>
<td>Multiple choice</td>
<td>20% Lecture, 20% Discussion, 30% Laboratory, 30% Small Group Activities.</td>
<td>20% Lecture, 20% Discussion</td>
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This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
will make considerable use of internet-based curricular materials.

**Style:** 60% Lecture, 30% Laboratory, 10% Small Group Activities

**Grading:** 30% final exam, 10% quizzes, 30% additional semester exams, 30% laboratory evaluation.

**PSTL 1163 Physics by Inquiry**

4 credit(s); prereq credit will not be granted if credit received for: GC 1163; Meets CLE req of Physical Science/Lab Core;

**Instructor:** Ha, Leon

**Description:** PSTL 1163 is an introductory physics course that tries to simulate the way scientists discover and create knowledge. The course is aimed at elementary education majors and non-science majors. The entire class period is a lab and there are no lectures. Students work in small groups to perform experiments, make observations, develop theories of how things work, and test those theories by performing further experiments. Students study an understanding of physics concepts through doing it and talking about it with their peers and with the course staff. The goal of the course is not only to learn physics concepts, but knowing HOW we know them (what is the evidence for them), being able to apply them in new situations, and being able to explain them. There is a fair amount of writing involved in the course in terms of explaining one’s answers, but not in the sense of papers. The course places an emphasis on learning by thinking and doing.

**Style:** 100% Laboratory.

**Grading:** 15% mid exam, 20% final exam, 15% reports/papers, 15% quizzes, 15% additional semester exams, 10% journal, 5% class participation, 5% other evaluation.

**Exam Format:** All questions require short answers or short essays explaining an answer.

**PSTL 1171 Earth Systems and Environments**

4 credit(s); prereq credit will not be granted if credit received for: GC 1171; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;

**Instructor:** Fayon, Annya

**Description:** Students will learn about geologic processes through an earth systems approach that focuses on the interaction between natural cycles and society. Topics will include formation of continents and mountains, geologic time, living with natural hazards (i.e., earthquakes and volcanoes), climate changes, and natural resources. Lecture and laboratory format.

**PSTL 1204 Ways of Knowing in the Social Sciences**

A-F only, 4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

**Instructor:** Detzner, Daniel Frank

**Description:** Ways of Knowing in the Social Sciences is a course of studies that enables students to utilize the social science disciplines as a multidisciplinary lens for understanding major local, national, and international issues. We will explore the diverse ways that Economics, Political Science, History, Sociology, Anthropology, and Geography construct evidence and present knowledge by studying the local/global dimensions of immigration. The course examines major ideas, theories, and perspectives from each discipline while building an interdisciplinary understanding of the international dimensions of human migration. Students will learn multi-media research and presentation skills. Students interested in teaching or majoring in the social sciences gain useful information for choosing a major and teaching in a multidisciplinary field of studies. With a focus on experiential learning, students in this course will develop an interdisciplinary way of thinking that can be used to understand other major social issues.

**Style:** 25% Lecture, 40% Discussion, 10% Laboratory. 6 self designed field trip

**Grading:** 20% reports/papers, 40% quizzes, 10% in-class presentation, 10% class participation, 20% other evaluation. self designed field trips

**Exam Format:** multiple choice, 10 questions

**PSTL 1204 Ways of Knowing in the Social Sciences**

A-F only, 4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

**Instructor:** Siebleton, Michael J

**Description:** Student may contact the instructor or department for information.

**PSTL 1211 Multicultural Perspectives in Sociology**

4 credit(s); prereq credit will not be granted if credit received for: GC 1211; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Ronkvist, Amy Michelle

**Description:** This course provides an introduction to sociological methods and approaches. Areas of study include socialization, culture, stratification (on the basis of race, class, and gender), social institutions, social control and social change. During the semester we will explore these and other topics in an overview of major ideas associated with classical and social modern thought. Through the readings, we will contest everyday understandings of social issues and consider the ways in which different aspects of social life systematically differentiate by privileging and disadvantaging our participation in society. Students will have the option to apply these ideas to real world settings by participating in a service learning project over the course of the semester.

**Style:** 60% Lecture, 20% Discussion, 20% Small Group Activities.

**Grading:** 55% reports/papers, 20% quizzes, 5% in-class presentation, 20% class participation.

**Exam Format:** multiple choice

**PSTL 1211 Multicultural Perspectives in Sociology**

4 credit(s); prereq credit will not be granted if credit received for: GC 1211; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Mikkola, Karen L

**Description:** This course is designed as an introduction to sociological thinking and methods of research. Areas of study include socialization, culture, stratification and inequality (on the basis of race, class, and gender), social institutions (such as law, education, and the family) and social change. The purpose of this course is to provide you with tools to better understand (and question) our ideas and our social world and to come up with ways to work together with community groups to bring about social change. This section of PaSTL 1211 Multicultural Perspectives in Sociology is part of a learning community. Students enrolled in this section must also enroll in FSOS 2101: Preparation for Working with Families, taught by William Goodman. By linking these two courses in a learning community, students will have the opportunity to learn more about themselves and about the world around them. We will explore the theme "Minding the Body," and consider "the body" to be the individual, the community, and the world.

**Style:** 20% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 20% Service Learning.

**PSTL 1231 U.S. History: Multicultural Perspectives**

4 credit(s); prereq credit will not be granted if credit already received for: GC 1231, GC 1231W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Ghere, David Lynn

**Description:** This course addresses the major political, economic, social and diplomatic issues in American History since 1865 from a variety of multicultural perspectives. The historical roots of our cultural diversity, the effects of various cultures on our national development, the cultural contributions of our various citizens, and our shared struggle as a nation are examined by focusing on three themes: The Rise of Modern America, Challenges to the American Dream, and Fulfilling the American Mission. The assigned textbook and readings have been selected to provide the historical knowledge and multicultural perspectives to support the examination of those historical themes. Classroom simulations are used in the course to place the student in the role of a political or diplomatic decision maker. Documents providing multicultural perspectives

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are examined to stimulate class discussion while issues and events are discussed and critiqued from a variety of historical perspectives. The dynamic nature of history as a discipline will also be addressed.

**Style:** 50% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities.

**Grading:** 25% mid exam, 25% final exam, 10% reports/papers, 5% reflection paper, 10% class participation. Two midterm exams each worth 25% each covering five chapters. Final exam worth 25% covers only the last five chapters.

**Exam Format:** Multiple choice worth 30 points, short essays worth 30 points, long essay worth 40 points.

**PSTL 1246 Multicultural Contexts: Engaging Citizenship and Democracy**

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

**Instructor:** Peter, Gary E

**Description:** Using multiple lenses of history, law, and sociology, this course examines the role of individuals and groups in shaping the nature of citizenship and public ethics in U.S. society. Using social science texts, historical narratives, literature, and legal cases, the course explores the nature of legal and personal responsibility with particular attention to race, class, gender and civil rights. To learn how the adversarial system works (or doesn’t work) all students will participate in a full mock jury trial.

**Style:** 25% Lecture, 5% Film/Video, 25% Discussion, 20% Small Group Activities, 20% Student Presentation, 5% Guest Speakers.

**PSTL 1246 Multicultural Contexts: Engaging Citizenship and Democracy**

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

**Instructor:** Poch, Robert Karl

**Description:** The primary goal of this course is to proactively engage students in exploring the nature of citizenship in the United States, how it has changed through time, and practical ways in which we can become engaged citizens today in a multicultural society. We examine the role of individuals and groups in shaping and defining the nature of citizenship and public ethics in U.S. society and ask when and if all people in the U.S. have had equal opportunity for full citizenship. Further, we investigate and discuss what social, legal, and institutional practices impact the capacity of individuals and groups to engage in citizenship in a multicultural democracy.

**PSTL 1251 Global History and Culture**

4 credit(s); prereq credit will not be granted if credit received for: GC 1251; Meets CLE req of Historical Perspectives Core; meets CLE req of International Perspectives Theme;

**Instructor:** Arendale, David R

**Description:** This course fulfills Two Graduation Requirements: CLE Diversified Core: Historical Perspectives CLE Designated Theme: International Perspectives Course Overview World History and Culture examines the 20th and 21st centuries to examine the profound and enduring ideas that have influenced the development of global, political, social, and economic systems. This course explores civilizations of the world by placing historical events, customs and cultures in a global context. The format focuses development of civilizations from a broad viewpoint. The use of historical documents, computer resources, historical simulations, text, film documentaries, small group discussions, and lecture presentations are combined to create a comprehensive view of the major world cultures. This course provides balanced exploration of world history during the past 100 years. The course develops major concepts such as nationalism, colonialism, liberalism, socialism, communism, and fascism while tracing their impact on Europe, Asia, Africa, and the Americas. Major questions explored by the course instructor include: How does today’s news headlines connect with the past? The last fourth of the course focus on the period from World War II to the present. Exploring these questions helps to make sense out of history and connect “then and now.”

Current events such as ethnic conflicts, the breakup of the Soviet Union, the modernization of Japan, China, and India, Arab/Israeli disputes, nation building in Africa, neo-colonialism and trade dependence in developing countries make sense when the past is explored and connections made with the present. Technology: Another life skill that is developed through this course is the use of technology. Like many other courses at the University, WebVista is an important Internet tool that serves as a companion to the course. Utilizing the features of WebVista will allow accessing of critical course materials (study guides, lecture outlines, information links). An additional feature of this course is integrating the use of blogs, wikis, and podcasting into the course. These are emerging Web 2.0 technologies that students in the class will have an opportunity to experiment with and hopefully use in other classes and after college. As a class we will construct a weekly podcast that features a review of the history topics as well as include music. Check out the podcast at http://thenandnow.org It can be subscribed through iTunes. Also, the class will construct online its own study guide for the major exams. Check out the website at http://myworldhistory.net

**Style:** 60% Lecture, 10% Film/Video, 15% Discussion, 10% Small Group Activities, 5% Student Presentation

**Grading:** 25% mid exam, 25% final exam, 10% reports/papers, 10% special projects, 10% quizzes, 20% additional semester exams, 5% reflection paper, 5% in-class presentation. Study guides for major exams created by students in the class and also provided by the course instructor. Also the course instructor and the enrolled students co-produce a weekly podcast that reviews the textbook chapters and class lectures and provide

**Exam Format:** Major exams have three parts: matching vocabulary, multiple-choice, and essay questions.

**PSTL 1281 Principles of Psychology**

4 credit(s); prereq credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

**Instructor:** Wambach, Cathrine A

**Description:** Principles of Psychology provides students with an overview of the discipline’s major theories, concepts, methods, and areas of research. Applications of psychological theory and research to educational practice are highlighted.

**PSTL 1281 Principles of Psychology**

4 credit(s); prereq credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

**Instructor:** Madyun, Naim Hossein

**Description:** Student may contact the instructor or department for information.

**PSTL 1289 Psychology and Self: Developing Identities**

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Grier-Reed, Tabitha LaShau

**Description:** This course introduces students to a basic psychological exploration of identity. Focusing on psychology and the self, the course is designed to help students apply psychological principles to life experience and better understand themselves, their choices, and the cultural contextual forces that shape us.

**PSTL 1312 Creating Identities Through Art and Performance**

4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

**Instructor:** Dorsey, Heather Jane

**Description:** This course explores the performing arts?specifically theater ?as forces for change. The work of authors, artists, and performers like Sean O’Casey, Arthur Miller, Diane Glancy, and Langston Hughes helps us to better understand the role of identity in the USA. The assigned plays, as well as readings and films, have been selected in order to provide a range of cultural perspectives. We will also explore cultural identities and communities through classroom performance workshops, attending live performances and museums and putting what we learn into practical action. No previous training or experience is required, but you will need to...
be willing to engage in basic performance exercises. You will come out of this course able to communicate more effectively and collaborate with others, essential skills for life. The Washington Street Bridge will be our final performance space, the perfect place to explore and perform questions of identity, community, and culture.

**PSTL 1312 Creating Identities Through Art and Performance**
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

*Instructor:* Burhan Linda J

*Description:* "Creating Identities through Art and Performance" is an introductory course that both analyzes and creates art in order to experience how different genres of art reveal social and cultural themes that shape identity. Students will be reading and reflecting on short stories, digital stories, plays, poetry, film, music, and photography. Students will also create multimedia projects which reflect their identity through some combination of text and images.

*Style:* 40% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities, 5% Student Presentation, 10% Demonstration, 10% Studio, 5% Guest Speakers, 5% Web Based.

*Grading:* 20% reports/papers, 20% special projects, 10% written homework, 10% attendance, 10% reflection paper, 20% in-class presentation, 10% class participation.

**PSTL 1312 Creating Identities Through Art and Performance**
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;

*Instructor:* Frederickson, Tina

*Description:* This course is designed to develop an understanding and appreciation of the performing arts (theatre arts, oral interpretation of literature, reader’s theatre, storytelling/spoken word), from the perspective of viewer and participant. Emphasis is placed on in-class.scene/literature analysis and readings from a variety of genres, authors, and voices, both classical and contemporary. Journal writing, play critiques, peer feedback, group interaction and discussion, and out of class observations. Other key components include attending local theatre productions, a theatre tour, and interactions with guest artists from the Twin Cities performing arts community. Students will be on their feet, active and moving, most every class in class.

*Style:* 5% Lecture, 10% Film/Video, 20% Discussion, 15% Small Group Activities, 30% Student Presentation, 15% Field Trips, 5% Guest Speakers.

*Grading:* 20% final exam, 20% reports/papers, 20% written homework, 10% attendance, 10% journal, 20% in-class presentation.

**PSTL 1365W Literatures of the United States: Multicultural Perspectives**
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

*Instructor:* Peter, Gary E

*Description:* An introduction to U.S. literatures from 1865 to the present day. We will read a variety of stories, essays, plays, and poems, looking at issues of identity and diversity in the United States through the writers from multiple ethnic and social backgrounds, paying particular attention to the historical context of the literature we are studying. The course is writing intensive; there will be some written assignments that are drafted and developed with feedback. There will also be a lot of discussion of the various works.

*Style:* 30% Lecture, 50% Discussion, 15% Small Group Activities, 5% Student Presentation.

*Grading:* 45% reports/papers, 15% quizzes, 25% written homework, 15% class participation.

**PSTL 1366 Literatures of the U.S.: Multicultural Perspectives**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;

*Instructor:* Rojas Collins, Molly C

*Description:* In this course, we will focus specifically on the literature of the American Immigrant Experience. We will read texts written by 1st or 2nd generation immigrants about their own experiences and reflect on themes related to this important American phenomenon. Students will participate in literary analysis and discussion and respond to readings with shorter essays and exams. As an introductory course, students will also investigate the ways academics read literature.

*Grading:* 40% mid exam, 40% reports/papers, 10% quizzes, 5% attendance, 5% in-class presentation.

**PSTL 1366 Literatures of the U.S.: Multicultural Perspectives**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;

*Instructor:* Fitzpatrick, Renata Marie

*Description:* In this course, we will focus specifically on the literature of the American Immigrant Experience. We will read texts written by 1st or 2nd generation immigrants about their own experiences and reflect on themes related to this important American phenomenon. Students will participate in literary analysis and discussion, and respond to readings with shorter essays and exams. In this introductory course, students will also investigate the ways academics read literature.

**PSTL 1367W Literatures of the World: International Perspectives**
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

*Instructor:* Cory, Kristin Anne

*Description:* In this course students will read novels from different parts of the world that share a focus on the experience of young people as they enter into the adult world. We will use these novels as a basis for exploring the ways that literature works and the work it does, drawing us deeper into our selves and also further into the world around us. Course work will center around small and large group discussions, activities and various formal and informal written assignments.

*Style:* 20% Lecture, 40% Discussion, 40% Small Group Activities.

**PSTL 1371 Reading Short Stories**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;

*Instructor:* Trites, Jill K

*Description:* Student may contact the instructor or department for information.

**PSTL 1461 Multicultural Perspectives in Public Speaking**
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

*Instructor:* Trites, Jill K

*Description:* Students develop fundamental skills, knowledge, and abilities to confidently communicate their thoughts and ideas to others in a public forum. Students prepare and present a series of informative and persuasive speeches on socially significant topics in multicultural contexts. Special focus on ethics, citizenship, voice, language.
PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Dorsey, Heather Jane
Description: The purpose of this course is to introduce the student to the field of Speech Communication; to show basic theories of communication; illustrate the complicated process that is communication; and demonstrate that, through conscious choices, the student can significantly impact the effectiveness of communication. This course will aid the student in the development of communication skills and allows for assessment of personal strengths, weaknesses and barriers to communication. This, ultimately, will prepare the student to be a better communicator.

PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Kelly, Margaret Ellen Delehanty
Description: Students develop fundamental skills, knowledge, and abilities to confidently communicate their thoughts and ideas to others in a public forum. Students prepare and present a series of informative and persuasive speeches on socially significant topics in multicultural contexts. Special focus on ethics, citizenship, voice, language.

PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Frederickson, Tina
Description: This course is designed to develop an understanding of the fundamental principles, processes, and practices of face-to-face human communication. Core focus is on public communication; providing practical public speaking experiences and opportunities to critically analyze this rhetorical art. Emphasis is placed on frequent in-class presentations, critical and creative thinking, written critiques, readings, and group discussions. Understanding the power of speech, language, and organization of ideas to reach communicative goals is paramount.
Style: 20% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 35% Student Presentation.
Grading: 11% midterm exam, 13% final exam, 18% written homework, 8% attendance, 50% in-class presentation.

PSTL 1481 Thinking Through Art
3 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Hyland, Ezra St
Description: Student may contact the instructor or department for information.

PSTL 1485 Creativity: Photography
4 credit(s); prereq Own camera [35 mm w/adjustable controls preferred], UC: $50 lab fee;
Instructor: Milikan, Jeffrey B
Description: This introductory course explores conceptual, technical, and historical aspects of photography as an art form. Emphasis is on the creative process through hands-on experience as students learn about camera control, film development, enlarging, and printing in a photographic darkroom. Students receive instruction and support through individual and group discussion and critiques as they work to create a portfolio of their own images. Course includes required lab time in addition to scheduled class times. Students must have a film based camera, (35mm with adjustable controls preferred).
Style: 30% Lecture, 20% Discussion, 50% Laboratory.

PSTL 1511 Introduction to Business and Society
4 credit(s); Meets CLE req of Social Science Core;
Instructor: Kroll, Patrick A
Description: Introduction to Business and Society is a business/social science course allowing students to explore a broad range of business content from accounting to z-style management. It satisfies the University's qualification as a social science. Students use the course to help explore possible majors and business careers.
Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.

PSTL 1513 Small Business Fundamentals With E-Business Applications
3 credit(s);
Instructor: Kroll, Patrick A
Description: Student may contact the instructor or department for information.

PSTL 1513 Small Business Fundamentals With E-Business Applications
3 credit(s);
Instructor: Peterson, Rick
Description: Student may contact the instructor or department for information.

PSTL 1571 Computer Literacy and Problem Solving
4 credit(s); prereq credit cannot be granted if credit has already been received for: 1573; or 1574;
Instructor: Robertson, Douglas Frederick
Description: Students learn concepts and develop competencies in computer technologies most often used in social sciences and in business to help solve problems. Topics include using advanced word processing techniques to create complex written documents such as reports (including character and paragraph style sheets, mailmerge, formatting, tables, graphics, cross-references, headers, footnotes, and indexes), using an electronic spreadsheet to analyze data (including formulas, IF/THEN/ELSE, LOOKUP, different types of graphs, formatting), using a database management program to store, organize, and query data (including creating customized databases, modifying database structure, data verification and formatting, creating forms and reports, exporting/importing data, data extraction), and using presentation software to communicate ideas and findings in a multimedia format (including text, clipart, photos, tables, animations, and audio) to larger groups. Integration of the four applications is introduced. This is a computer-mediated course and there are no lectures. The instructor helps students individually during class as they work on course projects. Course uses Microsoft Office 2007 for Windows.
Style: Students work on computers, get help from instructor.
Grading: 30% mid exam, 35% final exam, 35% written homework.
Exam Format: Exams done on the computers in the classroom. Students modify documents as instructed.

3 credit(s); prereq freshman; Credit will not be granted if credit has been received for: PSTL 1902; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Jensen, Murray Stowe
Description: There are two components to this course: science and politics. The science of genetics and reproduction involves learning the basics of DNA, fertilization, embryos, developmental biology, etc., as well as new developments in the science of becoming pregnant, such as in vitro fertilization techniques, as well as how we prevent pregnancy while still being sexually active, such as the morning after pill. The political portion of the course will revolve around bioethics; the hard work involved in making decisions surrounding genetics, DNA, sex, and reproduction. Topics will range from personal decisions, e.g., using a condom, to federal law, e.g., Row vs. Wade, and even world politics, e.g., the one child rule in China. Cultural and religious traditions will be used as a framework for many topics and special consideration will be given to the lessons learned from our country's history with eugenics. This course will include many topics related to citizenship and public ethics, and specifically, bioethics. Should a human try to reproduce as much as possible? Should one person be able to tell another person to...
stop reproducing? Should state or national government bodies influence family planning? Should family size be linked to welfare laws? These and many more bioethical topics will be examined within a context of science, politics, religion, and history. Consideration will be made to significant events such as the Row V. Wade abortion ruling, mandatory sterilization laws and eugenics, the development of the birth control pill, and the Tuskegee study of untreated syphilis, to recognize how history has shaped our current opinions and laws relating to human reproduction. Special attention will be made to how religious and cultural beliefs interact with the quickly advancing fields of genetics and reproduction technologies, and how these interactions influence individuals, families, communities, and even governments when making bioethical decisions.

Style: 10% Lecture, 70% Discussion, 20% Student Presentation.
Grading: 50% mid exam, 30% final exam, 20% reports/papers.

PSTL 1904 Freshman Seminar: International Perspectives: Unlike Terms: Pathways to Global Development
3 credit(s); prerequisite freshman; Credit will not be granted if credit has been received for: PSTL 1902; Meets CLE req of International Perspect Theme; Instructor: Staats,Susan K
Description: Quality of human life?in terms of access to basic resources, health and economic living standard?varies dramatically across the globe. This interdisciplinary class uses social, ecological and quantitative perspectives to study the United Nations? Millennium Development Goals to reduce abject poverty and inequality across the world. International issues covered include deforestation, global warming, urbanization and women?'s and children?'s health. The Millennium Project charts pathways to global development that may provide a more equitable future for all of the world?'s people. Students will be able to develop their own reaction to significant international issues. One of the interdisciplinary goals of this class is to provide students a means of improving their algebra skills in a meaningful, humanistic context. There is no math prerequisite.

3 credit(s); prerequisite freshman credit will not be granted if credit has been received for: 1907, 1908, 1909; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive; Instructor: Buturian,Linda J
Description: Water, Water, Everywhere? is a writing intensive freshman seminar with an environmental theme. Students will learn about the vital role water plays in the functioning of ecosystems, and will analyze some of the environmental challenges involving water. We will also explore literary and artistic expressions inspired by water. Selected readings, guest speakers, and films will help us understand how the ecosystem functions, inform us on challenges involving access to clean water, inspire us with artistic endeavors, and educate us about some of the efforts going on at the University and beyond to protect and celebrate the gift of clean water. Students will have an opportunity to visit a university or community organization of their choosing, and take photographs in order to create digital stories. The class will post their digital stories to a public website that they also create. Technical assistance will be provided. Students will write in the forms of first person narrative, an analytical paper, as well as weekly responses to readings. Throughout the seminar the instructor will be teaching effective writing strategies and providing feedback on students?' work. One paper can be revised after receiving teacher?'s feedback. The seminar will be an exciting, hands on experience from a multidisciplinary perspective, about a resource we can?t live without.

PSTL 1907W Freshman Seminar: Cultural Diversity: Exploring Diversity through a Popular Culture Lens
3 credit(s); prerequisite freshman; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive; Instructor: Higbee,Jeannie Louise
Description: Student may contact the instructor or department for information.

Program for Individualized Learning
20 Classroom Office Building

PIL 3211 Degree Planning
S-N only, 5 credit(s); prerequisite PIL student, dept consent; Instructor: Laden,Gregory Thomas
Description: Student may contact the instructor or department for information.

PIL 3251 Project 1 Seminar
S-N only, 5 credit(s); prerequisite PIL student, dept consent; Instructor: Hanson PhD,JoAnn Marie
Description: Student may contact the instructor or department for information.

Psychology
N-218 Elliott Hall

PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core; Instructor: Brothen,Thomas
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core; Instructor: Briggs,Kathleen Helen
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core; Instructor: Luciana,Monica Marie
Description: Student may contact the instructor or department for information.

PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core; Instructor: Maurer,Steven Thomas
Description: Psychology 1001 is an introduction to the scientific study of human behavior and a prerequisite for all advanced psychology courses. The course introduces the problems, methods, and findings of modern psychology to beginning students, and emphasizes the scientific analysis of behavior and cognition. The course is designed for a broad undergraduate audience, as it is a requirement for many majors, and most students who take the course do not go on to major in psychology. I have designed this course with four objectives in mind. At the end of this course all of you should: 1. know the basic terms, concepts, principles, methods, and perspectives of psychology; 2. be able to apply this knowledge to your own life and the world around you; 3. be able to think critically about psychology and pop psychology; 4. be able to do the first three things after you get out into “the real world” after college. Though

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primarily lecture format, this class involves a great deal of interaction with the professor and other students. In-class assignments will require you to apply information you've learned to real-life situations, including your own life, as well as to think scientifically/critically.

**Style:** 70% Lecture, 15% Discussion, 15% Small Group Activities.

**Grading:** 15% mid exam, 15% final exam, 11% reports/papers, 15% special projects, 7% class participation, 7% problem solving, 30% other evaluation; two additional exams

**Exam Format:** combination of multiple choice and short/long answer

**PSY 1001 Introduction to Psychology**
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;

**Instructor:** Hooper, Amy Christine

**Description:** Student may contact the instructor or department for information.

**PSY 1001 Introduction to Psychology**
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;

**Instructor:** Denkinger, Ben

**Description:** This course is designed to provide students with an understanding of the concepts related to the scientific study of human behavior, and is a prerequisite for all advanced psychology courses. The primary goals of this class are to help you think critically about the material and to create a conceptual foundation for further learning. By the time you have completed this course you will know the basic terms, concepts, methods, and perspectives in the psychological discipline. Among the topics covered in this class are the nature of consciousness, memory, intelligence, human socialization, language, development, perception of the external world, and personality.

**Style:** 50% Lecture, 10% Film/Video, 15% Discussion, 15% Small Group Activities, 10% Demonstration.

**Grading:** 40% mid exam, 20% final exam, 20% reports/papers, 20% reflection paper.

**PSY 1001H Honors Introduction to Psychology**
4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Science Core;

**Instructor:** Brothen, Thomas

**Description:** (Description forthcoming.)

**Style:** WebCT Internet exercises and quizzes

**PSY 1905 Freshman Seminar: The Truth About High Stakes Testing**
A-F only, 3 credit(s); prereq freshman;

**Instructor:** Kuncel, Nathan Richard

**Description:** Student may contact the instructor or department for information.

**PSY 1910W Freshman Seminar: Psychopaths and Serial Killers**
A-F only, 3 credit(s); prereq Fr; Meets CLE req of Writing Intensive;

**Instructor:** Patrick, Christopher John

**Description:** Student may contact the instructor or department for information.

**PSY 2801 Introduction to Psychological Measurement and Data Analysis**
3 credit(s); prereq High school algebra, [PSY 1001 or equiv]; intended for students who plan to major in psychology;

**Instructor:** Nichol, Penny E

**Description:** Psy 2801 is an introduction to the basic concepts and procedures related to the measurement and analysis of psychological variables. The main goal of this course is for students to understand the data of psychology and the appropriate selection and use of statistical tools to describe and evaluate results of psychological research. This course is a combination lecture/laboratory course. As such, students are expected to listen and participate in both the lectures and laboratory activities. To fulfill the University's mathematical thinking requirement, this course will emphasize the application of statistics to psychological data. Students will learn not only how to compute the statistics necessary for basic psychological data analysis, but will gain a conceptual understanding of the foundations of psychological measurement and the concepts behind statistics, such as sampling distributions and the logic of testing statistical hypotheses. PSY 1001 (or equivalent) is a prerequisite for the course.

**Style:** 67% Lecture, 33% Laboratory.

**Exam Format:** mixture of multiple choice, short answer, and computation/interpretation questions

**PSY 2801H Honors Introduction to Psychological Measurement and Data Analysis**
3 credit(s); prereq High school algebra, [PSY 1001 or equiv]; intended for students who plan to major in psychology;

**Instructor:** Bartels Jr, Roger Dennis

**Description:** Student may contact the instructor or department for information.
PSY 3001V Honors Introduction to Research Methods
3 credit(s); prereq [1001 or 1001H], [2801 or 2801H] or equiv; PSY major, honors student; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;
Instructor: Buchanann, Jacob Porter
Description: Student may contact the instructor or department for information.

PSY 3001W Introduction to Research Methods
3 credit(s); prereq [1001, [2801 or 2801H]] or instr consent; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;
Instructor: Steilman, Mark A
Description: PSY 3001W is an introduction to the basic concepts and procedures used to conduct and evaluate research in Psychology. Emphasis is placed on understanding traditional research methods, applying sound experimental techniques in order to produce interpretable results, and evaluating scientific claims. PSY 3001W is a writing intensive (WI) course and satisfies a Liberal Education social science requirement. As such, students will complete a number of writing assignments, culminating in an APA style research report. This course meets the writing intensive requirement stating that at least 33% of the student’s final grade must be based upon student writing.
Prerequisites: PSY 1001 (Intro Psychology), PSY 2801 (Intro to Psychological Measurement and Data Analysis), and at least sophomore standing.
Style: 50% Lecture, 50% Laboratory.
Grading: 15% mid exam, 25% final exam, 40% reports/papers, 10% written homework, 10% laboratory evaluation.

PSY 3005H Honors Introduction to Personality
3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 3011; Meets CLE req of Writing Intensive;
Instructor: Signorielli, Linda N
Style: 30% mid exam, 40% final exam, 20% class participation.
Grading: 60% final exam, 40% additional semester exams, 10% class participation.
Exam Format: Multiple choice.

PSY 3005V Introduction to Cognitive Psychology
3 credit(s); prereq 1001; Meets CLE req of Social Science Core;
Instructor: Landers, Amy Kurivichak
Description: Please see the syllabus for a description of the course. If you have any questions or concerns about this class, please contact Amy at kuriv002@umn.edu

PSY 3005Y Introduction to Biological Psychology
3 credit(s); prereq 1001 or Biol 1009; Credit will not be granted if credit has been received for: PSY 5061;
Instructor: Thomas, Mark John
Description: Student may contact the instructor or department for information.

PSY 3011 Introduction to Learning and Behavior
3 credit(s); prereq 1001;
Instructor: Brothen, Thomas
Description: Basic laboratory methods, fundamental phenomena, theoretical analyses, and summary principles from the field of learning and behavior change. Survey of major 20th century theorists and their distinctive perspectives, as well as introduction to contemporary descriptive and explanatory models. General introduction to classic issues in basic philosophy of science and critical analysis common to all empirical sciences.
Style: 90% Lecture, 10% Discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: Essay and multiple choice. Final is all multiple choice.

PSY 3011 Introduction to Learning and Behavior
3 credit(s); prereq 1001;
Instructor: Peterson, Gail Burton
Description: Basic laboratory methods, fundamental phenomena, theoretical analyses, and summary principles from the field of learning and behavior change. Survey of major 20th century theorists and their distinctive perspectives, as well as introduction to contemporary descriptive and explanatory models. General introduction to classic issues in basic philosophy of science and critical analysis common to all empirical sciences.
Style: 90% Lecture, 10% Discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: Essay and multiple choice. Final is all multiple choice.

PSY 3031 Introduction to Sensation and Perception
3 credit(s); prereq 1001;
Instructor: Olman, Cheryl Annette
Description: This lecture-based course covers basic information about human sensation and perception. Students will learn 1) how the human body turns different physical stimuli into neural impulses (sensation), and 2) how the brain receives and interprets these impulses (perception). Required text: Goldstein, E. B. (2007). Sensation and Perception (7th ed.). Belmont, CA: Thomson.
Grading: 50% final exam, 60% additional semester exams, 10% class participation.
Exam Format: Multiple choice.

PSY 3035 Introduction to Individual Differences
3 credit(s); prereq 2801 or 2801H or instr consent; Credit will not be granted if credit has been received for: PSY 5135;
Instructor: Irons, Daniel E
Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.

PSY 3201 Introduction to Social Psychology
4 credit(s); prereq 1001 or instr consent;
Instructor: Gonzales, Marti Hope
Description: Student may contact the instructor or department for information.

PSY 3201 Introduction to Social Psychology
4 credit(s); prereq 1001 or instr consent;
Instructor: Fisher, Emily L
Description: Overview of theories/research in social psychology. Emphasizes attitudes/persuasion, social judgment, the self, social influence, aggression, prejudice, helping, and applications.
Style: 75% Lecture, 25% Discussion.

PSY 3206 Introduction to Health Psychology
3 credit(s); prereq 1001;
Instructor: Mann, Traci Lynn
Description: This course is designed to give you a broad overview of the field of health psychology. Health psychology is a young and exciting field of study that examines the relationship between psychology and health. How do psychological factors influence your physical health? And how does your physical health influence how you feel psychologically? We will try to answer such questions as: Are certain personality types more likely to get sick, or to get certain illnesses? What does stress do to your health? What psychological and social factors cause people to behave in unhealthy ways? What helps people adjust to illness? Does having a lot of friends affect your health? What can psychologists do to help cure illness? Who is healthier, men or women? Are there ethnic variations in health? How can we help people who are in pain without getting them addicted to pain-killers? Does it matter how your doctor talks to you? Does being bereaved make you ill? Does dieting work? What does starvation do to your emotions? What influences how much food you eat? Can a sugar pill cure back pain?
Style: 75% Lecture, 10% Film/Video, 10% Demonstration, 5% Guest Speakers. Students will often collect data on themselves during class.
Grading: 50% mid exam, 40% final exam, 10% written homework. There are two midterms each worth 25% of the course grade.
Exam Format: Exams are primarily multiple choice, but may include some short answer answer items.

PSY 3301 Introduction to Cultural Psychology
A-F only, 3 credit(s); prereq 1001; Meets CLE req of Social Science Core;
Instructor: Tran, Alisia
Description: Theories/research on how culture influences basic psychological processes (e.g., emotion, cognition, psychopathology, etc.) in domains that span different areas of psychology (e.g., social, clinical, developmental, industrial-organizational) and other disciplines (e.g., anthropology, public health, sociology).

PSY 3511 Introduction to Counseling Psychology
3 credit(s); prereq 1001;
Instructor: Dean, Brooke Lyn
Description: This course is designed to provide an introduction to the field of counseling psychology. Broadly, topics addressed at the beginning of the course will include the history of the discipline, professions within it, and how counseling psychology distinguishes itself from other specialties within the broader fields of psychology and mental health. The bulk of the course will focus on the theories that practicing counseling psychologists and researchers use to inform their work (i.e., formulating case conceptualizations or hypotheses). Additionally, we will integrate a variety of topics of special relevance to counseling psychology throughout the course, including ethics, assessment, working with cultural diversity, empirical support for treatments, and ongoing research in the field regarding the processes underlying client change and outcomes.
Style: 40% Lecture, 5% Film/Video, 25% Discussion, 25% Small Group Activities, 5% Guest Speakers.

PSY 3511 Introduction to Counseling Psychology
3 credit(s); prereq 1001;
Instructor: Anders, Samantha Lee
Description: This course is designed to provide an introduction to the field of counseling psychology. Broadly, topics addressed at the beginning of the course will include the history of the discipline, professions within it, and how counseling psychology distinguishes itself from other specialties within the broader fields of psychology and mental health. The bulk of the course will focus on the theories that practicing counseling psychologists and researchers use to inform their work (i.e., formulating case conceptualizations or hypotheses). Additionally, we will integrate a variety of topics of special relevance to counseling psychology throughout the course, including ethics, assessment, working with cultural diversity, empirical support for treatments, and ongoing research in the field regarding the processes underlying client change and outcomes.
Style: 65% Lecture, 10% Film/Video, 15% Discussion, 5% Small Group Activities, 5% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 45% reports/papers, 5% class participation.

PSY 3604 Introduction to Abnormal Psychology
3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;
Instructor: Weiszhaar, Orville L
Description: Student may contact the instructor or department for information.

PSY 3604 Introduction to Abnormal Psychology
3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;
Instructor: Grove, William Merrill
Description: Target audience: majors and non-majors who have taken Psy 1001 (introductory psychology) or equivalent. This course provides a survey of various aspects of abnormal behavior. Emphasis will be placed on empirically well-supported approaches. Most of the course covers the various kinds of adult and child psychopathology, focusing primarily on descriptions of these forms of psychopathology, along with data relevant to etiological theories. While assessment and treatment will be considered as they relate to specific disorders, those with primary interests in these topics should take other offerings (Psy 3617 Introduction to Clinical Psychology). However, this course (or equivalent) is a prerequisite for Psy 3617. Text: V. M. Durand & D. H. Barlow. Abnormal Psychology: An Introduction. Pacific Grove, CA: Brooks/Cole, 1997. (There is a 5000-level version of Psy 3604, adding a paper as a course requirement. See description of that course for details.) The course is lecture format, but with as much discussion as possible. Exams include two midterms and a final, all non-cumulative in coverage, all having equal weight. Students usually consider the exams in this course quite difficult, and grading standards are high.
Style: 100% Lecture.
Grading: 67% mid exam, 33% final exam.
Exam Format: multiple choice

PSY 3604 Introduction to Abnormal Psychology
3 credit(s); prereq 1001;
Instructor: Berg, Kelly Christina
Description: This course will introduce students to how mental health professionals conceptualize various types of psychopathology. Students will learn the specific diagnostic criteria for a wide range of mental disorders described in the DSM-IV-TR as well as descriptive information including prevalence rates, ages of onset, and cultural differences. We will also discuss the history of the current diagnostic system, its pros and cons, cultural implications and possible alternatives. During this course, students will be responsible for learning basic descriptive psychopathology; thus, we will only cover the causes and treatments of psychopathology to the extent that it helps students understand the various mental disorders. If students

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have a particular interest in methods of treatment or therapy, please consider Psy3617: Intro to Clinical Psychology or Psy3511: Intro to Counseling Psychology. Credit will not be granted if credit has been received for Psy5604H, prereq Psy1001.

**Style:** 80% Lecture, 10% Film/Video, 10% Discussion.

**Grading:** 50% mid exam, 30% final exam, 20% reports/papers.

**PSY 3604 Introduction to Abnormal Psychology**

3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;

**Instructor:** Haut,Kristen M

**Description:** This course will explore what it means for behavior to be abnormal and how we make this decision. We will begin by discussing various meanings of ?abnormal? psychology from personal, sociological, and historical perspectives. This includes the history of the current diagnostic system, its pros and cons, cultural implications and possible alternatives. Furthermore, we will discuss the consequences of labeling behavior ?abnormal.? The bulk of the course will be spent learning the descriptive diagnostic criteria for a wide range of mental disorders, including symptoms, demographic factors, prevalence, and course. In order to do this, we will introduce you to the DSM-IV-TR, the diagnostic system used by psychologists and psychiatrists, as well as explore alternative diagnostic systems and examine a view of psychopathology as an extension of normal personality traits. These official definitions will also be discussed within personal, cultural, and sociological contexts.

**Style:** 75% Lecture, 10% Film/Video, 10% Discussion. 5% Small Group Activities.

**Grading:** 40% mid exam, 30% final exam, 10% reports/papers, 20% written homework.

**PSY 3617 Introduction to Clinical Psychology**

3 credit(s); prereq 3604 or 5604H;

**Instructor:** Vieze,Scott Ian

**Description:** Student may contact the instructor or department for information.

**PSY 3666 Human Sexuality**

3 credit(s); prereq 1001;

**Instructor:** Althaus,Linde

**Description:** Student may contact the instructor or department for information.

**PSY 3711 Introduction to Industrial and Organizational Psychology**

3 credit(s); prereq 1001, [2801 or equiv];

**Instructor:** Landers,Richard Nathaniel

**Description:** Industrial/Organizational (I/O) Psychology is the application of the scientific study of human behavior and thinking to work organizations. I/O Psychology is both an academic discipline and a professional discipline; thus, in this class we focus on both research and the application of research findings to practical problems in the workplace. I/O Psychologists are concerned with the recruitment, selection, training, motivation, and job performance of individuals at work. They are also involved in issues such as teamwork, leadership, and job attitudes. This class provides a general overview of research and practical application in I/O Psychology.

**Style:** 75% Lecture, 20% Small Group Activities, 5% Demonstration

**Grading:** 8% mid exam, 12% final exam, 19% reports/papers, 25% special projects, 12% quizzes, 12% additional semester exams, 12% class participation. Participation is determined by involvement in in-class use of the electronic Student Response System.

**Exam Format:** Combination multiple choice and short answer.

**PSY 3902W Major Project in Psychology**

A-F only, 3 credit(s); prereq [2801 or equiv], [3001W or 3005W], psy major, sr; Meets CLE req of Writing Intensive;

**Instructor:** Nicoll-Waller,Caprice

**Description:** In this course, you will have the opportunity to review and reflect on some of the principles of research and writing within the field of psychology. You will also complete a writing project that is designed to let you focus on a topic of interest and to showcase your skills as a reader and potential contributor of the psychological literature. You will attend 3 lectures at the start of the term and then work in labs under the supervision of qualified professionals engaged in the application of the scientific study of human behavior and thinking to work organizations. Important to examining these questions, especially for students of psychology, is knowledge of the dynamic causes and consequences of social behavior and interactions between people of different cultures. The aim of this course is to engage students in a critical analysis of intergroup behavior, beginning with the foundations of group identity and intergroup conflict, and ending with an examination of social psychological processes leading to peaceful coexistence among nations, such as the benefits of community and the processes of community-building.

**Style:** 20% Lecture, 5% Film/Video, 40% Discussion, 10% Small Group Activities, 15% Student Presentation, 10% Guest Speakers.

**Grading:** 30% reports/papers, 30% reflection paper, 10% in-class presentation, 30% class participation.

**PSY 4012 Behavior Analysis and Autism**

A-F only, 4 credit(s); prereq Individual auto transportation, instr consent;

**Instructor:** Peterson,Gail Burton

**Description:** Students registered in Psy 4011:Applied Behavioral Psychology, or who have already completed that course, may be eligible to register for this special service-learning opportunity on modern behavioral interventions for children with autism. With the instructor’s approval, course is also available to parents or other caregivers with a special interest in effective interventions for autism. Through weekly reading assignments, lectures and discussions, participants learn the principles and techniques currently employed to help young children with autism acquire functional language, appropriate social behavior, and general academic and living skills. Students also gain substantial experience working directly with autistic children in off-campus service-learning settings under the supervision of qualified professionals engaged in the application of applied behavior analysis (ABA) therapy. This field experience involves a MINIMUM of 5 hours per week (two 2 hour shifts plus one 1 hour team meeting) for 12 weeks learning to do one-on-one therapy at either a center-based or home-based ABA program site. Reliable personal transportation, e.g., your own car, is essential. Issues of professional ethics, social responsibility, and scientific and moral philosophy pertaining to the education of children with autism in our society and around the world are also addressed. Grading is based on class participation, competency evaluations at the service-learning site, and performance on the final exam.

**Style:** 30% Lecture. Supervised internship experience at off-campus site.

**Grading:** 50% final exam, 10% class participation, 40% other evaluation. Competencies demonstrated at internship site.

**Exam Format:** Short answer, essay, multiple choice

**PSY 4501 Psychology of Women and Gender**

3 credit(s); prereq 3001W or 3001V or instr consent;

**Instructor:** Glaser,Theresa Sharon

**Description:** Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
University of Minnesota - Course Guide for Twin Cities Campus  
Spring 2009

PSY 499V Honors Research Practicum  
4 credit(s); prereq [3005W/V or 3001W/V], honors psych; meets CLE req of Writing Intensive; 
Instructor: Fiechter, Charles R  
Description: The major goals of this course are to familiarize you (as a Psychology Department honors major) with research opportunities available in the University of Minnesota Psychology Department, provide you with practical experience conducting psychological research, and prepare you to write an honors thesis in psychology. To achieve these goals you will be required to work approximately nine hours each week on a research project designed and supervised by a faculty member or graduate student, make a formal in-class presentation, and write a 10-15 page research report. You will also be required to attend class each week and complete the required readings and assignments before each class. 
Style: 25% Lecture, work on individual research projects 
Grading: 50% reports/papers, 25% in-class presentation, 25% class participation. 
Exam Format: none

PSY 5014 Psychology of Human Learning and Memory  
3 credit(s); prereq 2011 or 3051 or honors or grad student; 
Instructor: Koutstaal,Wilma  
Description: A fundamental characteristic of memory is that it is in some way repeatable or copies something that occurred previously to an organism. However, there is clear variability in the extent to which what is recalled actually matches or echoes what was originally experienced. Further, although this variability is often viewed as a problem, it may result in errors of memory, such variability, in other contexts, is linked to sought after forms of thinking and expression, with implications for the transfer of learning, creativity, problem-solving, how we classify objects and events, and modes of thinking such as analogy and metaphor. A goal of this course is to understand how we adaptively use memory (episodic, semantic, procedural) in both exact and variable ways. We also will seek to relate behaviorally observed variability in memory to specific brain processes. This is an intensive seminar class. Each week, all students prepare written responses on specific chosen topics from the assigned readings (topics are selected from a list of provided options), and present their topic during the class. 
Grading: 20% mid exam, 40% reports/papers, 20% in-class presentation, 20% class participation.

PSY 5015 Cognition, Computation, and Brain  
3 credit(s); prereq 3051 [except for honors/grad student]; 
Instructor: Marsleak,Chad James  
Description: This course covers human cognitive abilities, such as perception, memory, and attention, from different perspectives. The first part of the course examines such abilities from the perspective of cognitive psychology. An emphasis is placed on the behavioral/functional approach to research and theory, and limitations of this approach are discussed. The second part of the course examines these abilities from the perspective of cognitive neuroscience. An emphasis is placed on the neural processing subsystems that underlie these abilities and on a theoretical framework that integrates cognitive, computational, and neuroscientific evidence. Ways in which this approach overcomes limitations of the cognitive psychological approach are highlighted. 
Style: 80% Lecture, 20% Discussion. 
Grading: 40% mid exam, 30% final exam, 30% reports/papers. 
Exam Format: Short answer

PSY 5065 Functional Imaging: Hands-on Training  
3 credit(s); prereq [2801 or 4801 or equiv], [3061 or NSCI 3101] or instructor consent; 
Instructor: Olman,Cheryl Annette  
Description: Course goals. By the end of the semester, students will: be comfortable with the hardware and software in the MR environment, to ensure safe operation and selection of the right equipment for a given experiment. be acquainted with the fundamental physical principles behind magnetic resonance imaging - understand the possible types of image contrast and their uses in neuroscience - be adept at modifying pulse sequence parameters to balance the inevitable trade-offs between signal-to-noise ratio, resolution and acquisition time. know how to modify an experimental protocol to minimize the impact of distortion and signal loss due to magnetic field inhomogeneities. Logistics. The class will meet Fridays from 2 ? 5 pm at the Center for Magnetic Resonance Research. Format is lecture, group discussion, terminal work (computational simulations) and lab work. Lecture will be from 2 ? 3. From 3 ? 5, the class will be split into 2 groups, which spend half of the time at the scanner and half of the time executing computational simulations. Background readings will be selected from either current journal articles or the following texts, and made available a week before the start of the module. Weekly assignments for the quizzes and 40% for the final exam. 
Style: Multiple choice, short answers, short essays. 
Grading: 20% in-class presentation, 20% lab participation. 
Exam Format: Multiple choice, short answers, short essays.

PSY 5101 Personality Psychology  
3 credit(s); prereq [3001W or equiv], [honors undergrad or grad student]; Credit will not be granted if credit has been received for: PSY 3101; 
Instructor: DeYoung,Colin G  
Description: Student may contact the instructor or department for information.

PSY 5138 Psychology of Aging  
3 credit(s); prereq 3001W or equiv; 
Instructor: Gershenson,Celia Wolk  
Description: The major focus of this course is to identify and describe those factors that contribute to the normal aging process. In brief, we will attempt to differentiate between myths and facts through the scientific study of adult development. We will concentrate on age-related changes in late adulthood. Among the topics to be covered are: biological aspects of aging as related to psychological processes, attention, learning, memory, mental abilities, personality, psychopathology, cognitive impairment, dementia, social factors, and end of life issues. Relevant theoretical issues will also be discussed. Where possible, we will highlight the application of scientific findings to age-related everyday life and problems. We will attempt to identify factors that contribute to successful or optimal aging. 
Style: 60% Lecture, 20% Film/Video, 30% Discussion, 1% Small Group Activities, 1% Demonstration, 1% Guest Speakers. 
Grading: 35% final exam, 25% reports/papers, 40% quizzes, 1% class participation. 
Exam Format: Multiple choice, short answers, short essays.

PSY 5202 Attitudes and Social Behavior  
3 credit(s); prereq 3201 or instr consent ; 
Instructor: Borgida,Eugene  
Description: No sub-field of theory and research is more identified with the field of social psychology than the study of attitudes and persuasion processes. The relationship between attitudes and social behavior and the study of persuasion processes has a long and distinguished history. This body of knowledge has made substantial contributions to theory and research in other sub-fields within psychology and in the other social sciences, and these connections in turn have enriched the ways in which social psychologists have studied attitudes and persuasion. The study of attitudes and persuasion processes has become more interdisciplinary and multi-method, and as a result the way in which social psychologists now think about the
relationship between attitudes and social behavior has become much more complex and nuanced. This course has been designed to review and examine critically both traditional and current theory and research on the psychology of attitudes and persuasion in social psychology and, where appropriate, allied fields within psychology and in other social sciences. The first part of the course will cover the historical background of the field, attitude theory, explicit and implicit measurement issues, the cognitive structure of attitudes, the complex relationship between attitudes, beliefs, values, and behavior, and aspects of the relationship between stereotypes, prejudice and discrimination. The second part of the course will focus on various social psychological theories of persuasion (e.g., message learning, consistency theories, functional approaches, cognitive frameworks, and especially dual process theories), with an emphasis on understanding the conditions under which people are susceptible and resistant to persuasion. Class time will involve lectures by the instructor and guest lectures, discussion of the text readings, and an occasional video or in-class demonstration.

Style: 75% Lecture, 25% Discussion. Discussion of films and guest lectures.

Grading: 25% mid exam, 25% final exam, 50% reports/papers. Total number of points based on all exams and papers, graded on a curve. Extra credit opportunities offered in the form of critical essay papers.

Exam Format: Multiple choice, short ID questions, essay on exam #2

PSY 5501 Vocational and Occupational Health Psychology
3 credit(s); prereq 3001W or equiv or instr consent
Instructor: Bubany,Shawn Timothy
Description: Student may contact the instructor or department for information.

PSY 5708 Organizational Psychology
4 credit(s); prereq [3001W or equiv], 3711 or instr consent
Credit will not be granted if credit has been received for: PSY 5702;
Instructor: Hezlett,Sarah Ashley
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Iacono,William George
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Kersten,Daniel John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Frazier,Patricia Ann
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Simpson,Jeffry A
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Marsalek,Chad James
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: MacDonald III,Angus
Description: The TRI-CAM laboratory explores questions in basic cognitive and affective neuroscience, the biological bases of psychopathology, and the measurement of group differences. Methodologies include functional magnetic resonance imaging (fMRI), behavioral genetics (twin and family studies), clinical assessment and cognitive testing. Current research includes (1) understanding how executive control mechanisms, which are associated with prefrontal cortex functioning, interact with attention, affective processing, social interactions and decision-making; (2) evaluating how impairments in such mechanisms may be related to schizophrenia, psychosis and externalizing behaviors and the genes associated with these conditions; and (3) methods development for analyzing fMRI, and psychometric confounds in the measurement of group differences. Eligibility: Must be an undergraduate student at the University of Minnesota; must have at least a 3.5 GPA; and must have taken or be concurrently enrolled in the following courses as prerequisites: PSY 1001, PSY 3005W, & PSY 3604.

Responsibilities & Expectations: Attend weekly laboratory meetings (including presenting research findings as indicated); attend bi-weekly journal club meetings (including leading one discussion); Complete work as in the laboratory in the amount of 3 hrs per credit per week (generally 2 mornings or afternoons per week); and write an APA-style research lab report (9-15 pp). Duties and activities include but are not limited to: running participants in research studies, data management & analysis, active participation in lab meetings and journal club. Grades will be based on: 1) laboratory attendance and fulfillment of responsibilities; 2) lab meeting attendance (with exceptions to be arranged with the instructor); 3) journal club presentation; 4) final lab report.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Rothman,Alexander John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Luciana,Monica Marie
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Thomas,Mark John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Kuncel,Nathan Richard
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: MacDonald III,Angus
Description: The TRI-CAM laboratory explores questions in basic cognitive and affective neuroscience, the biological bases of psychopathology, and the measurement of group differences. Methodologies include functional magnetic resonance imaging (fMRI), behavioral genetics (twin and family studies), clinical assessment and cognitive testing. Current research includes (1) understanding how executive control mechanisms, which are associated with prefrontal cortex functioning, interact with attention, affective processing, social interactions and decision-making; (2) evaluating how impairments in such mechanisms may be related to schizophrenia, psychosis and externalizing behaviors and the genes associated with these conditions; and (3) methods development for analyzing fMRI, and psychometric confounds in the measurement of group differences. Eligibility: Must be an undergraduate student at the University of Minnesota; must have at least a 3.5 GPA; and must have taken or be concurrently enrolled in the following courses as prerequisites: PSY 1001, PSY 3005W, & PSY 3604.

Responsibilities & Expectations: Attend weekly laboratory meetings (including presenting research findings as indicated); attend bi-weekly journal club meetings (including leading one discussion); Complete work as in the laboratory in the amount of 3 hrs per credit per week (generally 2 mornings or afternoons per week); and write an APA-style research lab report (9-15 pp). Duties and activities include but are not limited to: running participants in research studies, data management & analysis, active participation in lab meetings and journal club. Grades will be based on: 1) laboratory attendance and fulfillment of responsibilities; 2) lab meeting attendance (with exceptions to be arranged with the instructor); 3) journal club presentation; 4) final lab report.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Rothman,Alexander John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Luciana,Monica Marie
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Thomas,Mark John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Kuncel,Nathan Richard
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: MacDonald III,Angus
Description: The TRI-CAM laboratory explores questions in basic cognitive and affective neuroscience, the biological bases of psychopathology, and the measurement of group differences. Methodologies include functional magnetic resonance imaging (fMRI), behavioral genetics (twin and family studies), clinical assessment and cognitive testing. Current research includes (1) understanding how executive control mechanisms, which are associated with prefrontal cortex functioning, interact with attention, affective processing, social interactions and decision-making; (2) evaluating how impairments in such mechanisms may be related to schizophrenia, psychosis and externalizing behaviors and the genes associated with these conditions; and (3) methods development for analyzing fMRI, and psychometric confounds in the measurement of group differences. Eligibility: Must be an undergraduate student at the University of Minnesota; must have at least a 3.5 GPA; and must have taken or be concurrently enrolled in the following courses as prerequisites: PSY 1001, PSY 3005W, & PSY 3604.

Responsibilities & Expectations: Attend weekly laboratory meetings (including presenting research findings as indicated); attend bi-weekly journal club meetings (including leading one discussion); Complete work as in the laboratory in the amount of 3 hrs per credit per week (generally 2 mornings or afternoons per week); and write an APA-style research lab report (9-15 pp). Duties and activities include but are not limited to: running participants in research studies, data management & analysis, active participation in lab meetings and journal club. Grades will be based on: 1) laboratory attendance and fulfillment of responsibilities; 2) lab meeting attendance (with exceptions to be arranged with the instructor); 3) journal club presentation; 4) final lab report.
PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Jiang, Yuhong
Description: This is a research laboratory class with a focus on attention and memory research. Students are expected to work 8 hours in Prof. Jiang's laboratory in chunks of 2 half days or 1 day.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Olman, Cheryl Annette
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Legge, Gordon Ernest
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Viemeister, Neal F
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Ones, Deniz S
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Borgida, Eugene
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Sackett, Paul R
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Cuthbert, Eugene
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Federico, Christopher Michael
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Hansen, Jo-Ida C
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Gonzales, Marti Hope
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Snyder, Mark
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Fletcher, Charles R
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: He, Sheng
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Patrick, Christopher John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Lee, Richard M
Description: This directed research is designed for undergraduate and graduate students interested in the role of race, ethnicity, and culture in the development and well-being of individuals and families from diverse racial and ethnic backgrounds with a particular focus on adopted individuals and families and children of immigrant parents.
Style: 20% Discussion, 80% Laboratory. Students are expected to attend a weekly lab group meeting and reading group.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Federico, Christopher Michael
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Koutstaal, Wilma
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Cuthbert, Bruce Newell
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Oxenham, Andrew John
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instructor consent, dept consent;
Instructor: Jiang, Yuhong
Description: This is a research laboratory class with a focus on attention and memory research. Students are expected to work 8 hours in Prof. Jiang's laboratory in chunks of 2 half days or 1 day.
whole day. During this time students will engage in active laboratory research, including experimental design, data collection and analysis, and stimulus creation. Because of the significant amount of supervision involved, this class has limited enrollment with the permission of the instructor. It is expected that no more than 5 students will be permitted to enroll in this class in Fall'08 and Spring'09 combined. The class is shaped around individual students, with each person learning at his or her own pace. Those who do end up enrolling in the course have in the past learned a lot from it. Grading will be given on the basis of attendance, laboratory performance, and a 5-page final paper.

Style: 10% Discussion, 80% Laboratory, 10% Small Group Activities.
Grading: 15% reports/papers, 70% attendance, 15% laboratory evaluation.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Mann, Traci Lynn
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent, dept consent;
Instructor: Engel, Stephen A
Description: Engel lab research/lab meeting

PSY 8036 Topics in Computational Vision
3 credit(s), max credits 12, 4 repeats allowed; prereq 5031 or 5036 or equiv or instr consent;
Instructor: Kersten, Daniel John
Description: Student may contact the instructor or department for information.

PSY 8202 Close Relationships
A-F only, 3 credit(s); prereq 5204 or instr consent;
Instructor: Simpson, Jeffry A
Description: Student may contact the instructor or department for information.

PSY 8206 Proseminar: Research in Social Psychology
S-N only, 2 credit(s), max credits 10, 5 repeats allowed; prereq 8205, psych PhD student;
Instructor: Simpson, Jeffry A
Description: Student may contact the instructor or department for information.

PSY 8208 Social Psychology: The Self
A-F only, 3 credit(s); prereq Psych background especially in personality and soc psych;
Instructor: Snyder, Mark
Description: Student may contact the instructor or department for information.

PSY 8212 Proseminar in Political Psychology II
S-N only, 1 credit(s); prereq Political Psychology grad minor; Credit will not be granted if credit has been received for: POL 8308;
Instructor: Sullivan, John L
Description: Student may contact the instructor or department for information.

PSY 8502 Assessment in Counseling Psychology
3 credit(s); prereq Counseling psych grad student or instr consent;
Instructor: Pendergrass, Laura A
Description: Student may contact the instructor or department for information.

PSY 8511 Counseling Psychology Beginning Practicum: General
S-N only, 1-6 credit(s), max credits 18, 18 repeats allowed; prereq [[8501, 8502, 8503] or equiv], counseling psych grad student, or instr consent;
Instructor: Hansen, Jo-Ida C
Description: Student may contact the instructor or department for information.

PSY 8515 University Counseling Practicum II
S-N only, 4-6 credit(s), max credits 6, 1 repeat allowed; prereq Counseling psych grad student, 8501, 8502, 8503 or equiv, 8514, instr consent; Credit will not be granted if credit has been received for: EPSY 8514;
Instructor: Hanson, Matthew R
Description: Student may contact the instructor or department for information.

PSY 8545 Counseling Psychology Process and Outcome Research
3 credit(s); prereq [[8501, 8502, 8503] or equiv], counseling psych grad student, instr consent;
Instructor: Frazier, Patricia Ann
Description: Student may contact the instructor or department for information.

PSY 8554 Career and Occupational Health Psychology Assessment
3 credit(s); prereq Counseling psych grad student, or instr consent;
Instructor: Conlon, Amy Lynne
Description: Student may contact the instructor or department for information.

PSY 8561 Counseling Psychology Advanced Practicum II: General
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq Counseling psych grad student, 8501-8502-8503 or equiv, 8510-8511 or 8514-8515 or equiv, or instr consent;
Instructor: Frazier, Patricia Ann
Description: Student may contact the instructor or department for information.

PSY 8566 Counseling Psychology Advanced Practicum II: Vocational Assessment Clinic
S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq 8501, 8502, 8503 or equiv, 8514, [8515 or equiv], counseling psych grad student, or instr consent;
Instructor: Conlon, Amy Lynne
Description: Student may contact the instructor or department for information.

PSY 8571 Counseling Psychology Internship II
S-N only, 1-12 credit(s), max credits 36, 36 repeats allowed; prereq Counseling psych PhD candidate, instr consent;
Instructor: Hansen, Jo-Ida C
Description: Student may contact the instructor or department for information.

PSY 8612 Assessment II
A-F only, 5 credit(s); prereq 8611, clinical psych grad student;
Instructor: Arbisi, Paul Anthony
Description: Student may contact the instructor or department for information.

PSY 8620 Clinical Psychology Practicum
S-N only, 1-6 credit(s), max credits 36, 8 repeats allowed; prereq instr consent;
Instructor: Cuthbert, Bruce Newell
Description: Student may contact the instructor or department for information.

PSY 8622 Treatment I
A-F only, 3 credit(s); prereq 8111, CSPR grad student;
Instructor: MacDonald III, Angus
Description: This course addresses methodological issues in treatment research and theories of personal change. The course
is also designed to prepare students to provide therapy and conduct therapeutically-relevant research. As such, we address empirically supported therapies for anxiety, mood, and personality disorders, psychosis, and addiction from a number of different perspectives.

**Style:** 10% Lecture, 70% Discussion, 20% Small Group Activities.

**PSY 8815 Analysis of Psychological Data**
4 credit(s); prereq Undergrad course in statistics, grad student in [psychology or child psychology], instr consent; Instructor: Federico, Christopher Michael
Description: Student may contact the instructor or department for information.

**PSY 8882 Seminar: Quantitative and Psychometric Methods**
3 credit(s), max credits 15, 5 repeats allowed; prereq 5802, 5865, instr consent; Instructor: Waller, Niels Gordon
Description: Student may contact the instructor or department for information.

**PSY 8935 Readings in Behavioral Genetics and Individual Differences Psychology**
S-N only, 1 credit(s), max credits 10, 10 repeats allowed; prereq 5135, 5137 or instr consent; Instructor: Mc Gue, Matt
Description: Student may contact the instructor or department for information.

**PSY 8937 Seminar in Human Behavioral Genetics**
3 credit(s), max credits 6, 3 repeats allowed; prereq 5137 or Instr consent; Instructor: Mc Gue, Matt
Description: Student may contact the instructor or department for information.

**PSY 8960 Graduate Seminar in Psychology**
1-4 credit(s), max credits 36, 9 repeats allowed; prereq Psychology grad student or instr consent; Instructor: Waller, Niels Gordon
Description: Student may contact the instructor or department for information.

**PSY 8960 Graduate Seminar in Psychology**
1-4 credit(s), max credits 36, 9 repeats allowed; prereq Psychology grad student or instr consent; Instructor: Ones, Deniz S
Description: Student may contact the instructor or department for information.

**PSY 8960 Graduate Seminar in Psychology**
1-4 credit(s), max credits 36, 9 repeats allowed; prereq Psychology grad student or instr consent; Instructor: Sackett, Paul R
Description: Student may contact the instructor or department for information.

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**Public Affairs** 225 HHHCtr

**PA 1005 Great Debates of Our Time: U.S. Policy and Politics**
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Jacobs, Lawrence Rubin
Description: Extraordinary course with Vice President Walter F. Mondale and Professor Lawrence Jacobs will study America's ongoing constitutional crisis over the authority and roles of the legislative and executive branches. This once-in-a-lifetime course will combine lively readings, stimulating lectures, visits by leading experts, and Vice President Mondale's unique first-hand experiences. It will cover six presidencies over the past sixty years (three Democratic and three Republican) as well as constitutional history. Students will simulate key presidential decisions. Grades are based on class participation, short papers and a final examination. The course was taught last year for the first time. Student excitement persuaded the instructors to offer this unique course a final time. In addition to Vice President Mondale's participation, visitors will include Seymour Hersh (leading journalist of presidential national security policy making), James Comey (Deputy Attorney General during Bush administration), and Jane Mayer (New Yorker reporter).

**Style:** 40% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.

**Grading:** 35% final exam, 35% reports/papers, 15% special projects, 15% attendance.

**PA 1401 Public Affairs: Community Organizing Skills for Public Action**
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Donovan, Dennis Michael
Description: This is a hands-on introduction for undergraduate students wanting to develop skills, confidence, and knowledge to make positive change in public affairs. It shows how to get past the culture of critique and pessimism that often dominates in higher education. It acquaints students with hopeful examples of successful citizen organizers and organizations working to tackle tough public problems, from racism to teen pregnancy, failing schools to environmental degradation. The course will educate students about a new, broad movement for civic revitalization beginning to stir in Minnesota, and how students can make contributions to it. In PA 1401, students will gain concepts and practical skills such as thinking politically, forming partnerships across lines of difference, understanding diverse self-interests, mapping power, and knowing about the culture, history and social networks needed to make change.

**Style:** 15% Lecture, 50% Discussion. Small group public work actions

**Grading:** 20% reports/papers, 20% in-class presentation, 20% class participation, 20% problem solving, 20% other evaluation.

**Essays**

**PA 1961W Personal Leadership in the University**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive; Instructor: Strommer, Jean Theresa
Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.

**PA 1961W Personal Leadership in the University**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive; Instructor: Zentner Bacig, Karen
Description: This 1000 level course introduces leadership using a personal leadership perspectives and frameworks. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of leaders within the University of Minnesota, and learn about the importance of personal development.

**PA 1961W Personal Leadership in the University**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive; Instructor: Duenes, Michael
Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.
PA 1961W Personal Leadership in the University  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;  
Instructor: Christopherson, Christen Ruth  
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.  
Style: 100% Web Based. Web-based work includes discussion forum and 2 student presentations.  
Grading: 50% reports/papers, 15% reflection paper, 10% in-class presentation, 25% class participation.

PA 1961W Personal Leadership in the University  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;  
Instructor: Barsness, Amy O’Linda  
Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.  
Grading: 20% Lecture, 5% Film/Video, 50% Discussion, 20% Small Group Activities, 5% Student Presentation.  
Grading: 40% reports/papers, 20% reflection paper, 20% in-class presentation, 20% class participation.

PA 1961W Personal Leadership in the University  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;  
Instructor: Garrett Dikkers, Amy Elizabeth  
Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.  
Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.  
Exam Format: Final exam is a take-home written essay.

PA 1961W Personal Leadership in the University  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;  
Instructor: Fredrickson, Brian Steven  
Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.  
Grading: 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.  
Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.

PA 3961 Leadership, You, and Your Community  
A-F only, 3 credit(s); prerequisite [1961W or EdPA 1301W], [jr or sr]; Credit will not be granted if credit has been received for: EDPA 3302;  
Instructor: Christopherson, Christen Ruth  
Description: This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the history, current status, and stories about the issue of poverty as a context. As the theme for the course, many portions of the class content and discussion will explore the issue of poverty. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, each of the instructors, in addition to a teaching assistant, will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.  
Style: 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.  
Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.

PA 3971 Leadership Minor Field Experience  
A-F only, 2 credit(s); prerequisite [1961W or EdPA 3302W]; Credit will not be granted if credit has been received for: EDPA 3402;  
Instructor: Ve Lure, Christine Elizabe  
Description: Core leadership course information applied to leadership situations. Settings include community or educational organizations, corporations, University student organizations, and formal internships. Students identify two leadership objectives from among personal, interpersonal, and organizational development. Experiential learning, individual presentations, group discussions, critical reflection/writing.

PA 3971 Leadership Minor Field Experience  
A-F only, 2 credit(s); prerequisite [1961W or EdPA 3302W]; Credit will not be granted if credit has been received for: EDPA 3402;  
Instructor: Lloyd, Anna K  
Description: Leadership and leadership capacities from multicultural/multidimensional perspectives. Students examine their own views on leadership. Leadership theory/practice, group dynamics/behavior, applying knowledge.
Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class University of Minnesota - Course Guide for Twin Cities Campus Spring 2009

PA 5003 Introduction to Financial Analysis and Management A-F only, 1.5 credit(s); prereq Public policy major or public affairs major or grad nonprofit mgmt cert or instr consent ; Instructor: Kiedrowski, P. Jay
Description: This is an introductory course to budgeting and financial analysis in the context of public and nonprofit organizations. The primary learning objective of this course is how to obtain accurate financial information to make sound management decisions through the analysis of financial documents such as budgets and financial statements. The processes of producing such documents will be introduced but are not the focus of this course. Conceptual frameworks and analytical techniques will be emphasized and applied to analyze real-world financial problems. Lectures, discussions, and cases/examples from nonprofit and public sector organizations will be utilized.
Style: 50% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Demonstration.
Grading: 30% mid exam, 30% final exam, 25% reports/papers, 15% class participation.

PA 5012 The Politics of Public Affairs A-F only, 3 credit(s); prereq Major in public policy or [sci, tech, and environ policy] or instr consent ; Instructor: Zis, Michael Jack
Description: Student may contact the instructor or department for information.

PA 5022 The Politics of Public Affairs A-F only, 3 credit(s); prereq Major in public policy or [sci, tech, and environ policy] or instr consent ; Instructor: Oxendine, Alina R
Description: Stages of policy making from agenda setting to implementation. Role/behavior of political institutions (courts, legislatures, executives, bureaucracies) and citizens, social movements, and interest groups. Concepts of political philosophy. Theories of the state. Team taught, interdisciplinary course. Small discussion sections.

PA 5022 Economics For Policy Analysis and Planning II: Economics of Social Insurance A-F only, 1.5 credit(s); max credits 4.5, 3 repeats allowed; prereq [5021 or equiv], public policy major or instr consent ; Instructor: Hanratty, Maria J
Description: Student may contact the instructor or department for information.

PA 5022 Economics For Policy Analysis and Planning II: Public Finance A-F only, 1.5 credit(s); max credits 4.5, 3 repeats allowed; prereq [5021 or equiv], public policy major or instr consent ; Instructor: Hanratty, Maria J
Description: Student may contact the instructor or department for information.

PA 5022 Economics For Policy Analysis and Planning II: Macroeconomics A-F only, 0 credit(s), max credits 4.5, 3 repeats allowed; prereq [5021 or equiv], public policy major or instr consent ;
Schedule.

Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009

PA 5032 Intermediate Regression Analysis  
A-F only, 2 credit(s); prereq [[5031 or equiv], major in [public policy or [sci, tech, and environ policy]]] or instr consent ;  
Instructor: Kudrlie, Robert T  
Description: Bivariate/multivariate models of regression analysis, assumptions behind them. Problems using these models when such assumptions are not met.

PA 5033 Multivariate Techniques  
A-F only, 2 credit(s); prereq [[5031 or equiv], major in [public policy or [sci, tech, and environ policy]]] or instr consent ; [[5032 or equiv]] recommended;  
Instructor: Hendricks, Matthew David  
Description: Student may contact the instructor or department for information.

PA 5035 Survey Research and Data Collection  
A-F only, 1.5 credit(s); prereq [[5031 or equiv], [major in publ policy or [sci, tech, and environ policy]] or urban/regional planning]] or instr consent ;  
Instructor: Daves, Robert P  
Description: This course is a quick but comprehensive overview of the most common qualitative and quantitative applied social science research methods. The course spends the most time on survey research and how students can use it in their future work. At the end of the course, students should be familiar enough with how quantitative and qualitative research methods work to help them set research objectives, choose appropriate research techniques to meet those objectives, choose research vendors, evaluate vendors? work, and use the reports that vendors supply. The course attends mainly to the survey research process ? and we'll spend time on the topic of polling but also explores the major qualitative and quantitative methods of scientific social inquiry. We also will cover the basics of measurement theory, opinion formation, and research ethics. We'll also be using in-class discussion groups to review readings, and do work in small groups to develop objectives for a survey research project, design the sample, construct a questionnaire, and gather, enter and tabulate data. The small groups will present their project and its findings to the class.

PA 5036 Regional Economic Analysis  
A-F only, 1.5 credit(s); prereq Major in public policy or [science, tech, env policy] or urban/regional planning or instr consent ;  
Instructor: Assaad, Ragui A  
Description: Student may contact the instructor or department for information.

PA 5037 Regional Demographic Analysis  
A-F only, 1.5 credit(s); prereq Major in public policy; or science, tech, and env policy; or urban and regional planning; or instructor consent;  
Instructor: Assaad, Ragui A  
Description: Student may contact the instructor or department for information.

PA 5103 Leadership and Change in an Innovation Society  
3 credit(s); prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ;  
Instructor: Crosby, Barbara C  
Description: Change is often built into definitions of leadership, and certainly lots of scholars and practitioners have written about how leaders can foster change in their organizations or communities. As the United States and other countries move more fully into the ?innovation economy,? understanding the links between leadership and change take on increased urgency. Leaders will need conceptual tools and practical skills to promote innovative organizations that thrive in and contribute to an innovative society. Accordingly, this seminar will examine models of change and models of leadership and investigate how leaders can promote personal, organizational and societal change. Case studies and action research will be emphasized. An important class project will be a framework for leadership and change in an innovation society. At the end of each class session, two or three learners will be responsible for summarizing and synthesizing the evening?s conversation in order to add to the framework. Individual Learner Outcomes: 1. Able to define and analyze leadership from several perspectives 2. Able to identify and explain personal-level models of change 3. Able to identify and explain organizational-level models of change 4. Able to identify and explain societal-level models of change 5. Able to apply models of change to cases 6. Able to write a case study 7. Able to explain role of leadership and change in an innovation society 8. Able to practice action research 9. Able to apply systems thinking to a case 10. Better equipped to build learning communities Collective Learner Outcomes: 1. Build framework for leadership and change in an innovation society 2. Build learning community 3. Plan an innovation project Written Assignments: 1. Reflections ? Each learner is responsible for posting a written reflection on assigned readings five times during the semester on the course website. 2. Comments ? Each learner is expected to post one thoughtful query (conversation starter) and four responses to other learners? queries five times during the semester. 3. Working Paper ? 15-page case study or scholarly paper documenting action research related to the course. Also acceptable is a shorter teaching case and supporting notes and references. Grading: 35% reports/papers, 25% reflection paper, 30% class participation, 10% other evaluation.

PA 5111 Financial Management in Public and Nonprofit Organizations  
3 credit(s); prereq 5003 or instr consent ; 5011 or 5941 recommended;  
Instructor: Kiedrowski, P. Jay  
Description: This course focuses on management of financial resources for public and nonprofit organizations. Emphasis is placed on operating and capital budgeting, short-term and long-term debt management, retirement financing, and endowment investing. Conceptual frameworks and analytical techniques will be emphasized and applied to analyze real-world financial problems. Micromanagement of financial resources is also examined in the broader contexts of the performance of the national or regional economy. Lecture, discussion, problem solving, case analysis. Style: 50% Lecture, 20% Discussion, 20% Demonstration, 5% Field Trips, 5% Guest Speakers. Grading: 20% mid exam, 35% final exam, 30% written homework, 15% class participation.

PA 5112 Public Budgeting  
3 credit(s); prereq Grad student or instr consent ;  
Instructor: Penny, Timothy J  
Description: Course will focus on budget principles and processes at the state and federal levels. Topics will include budget development at the departmental level, the roles of the chief executive, the legislature and other key players. Exam Format: Essay  
Grading: 45% mid exam, 45% reports/papers, 10% class participation.

PA 5112 Public Budgeting  
3 credit(s); prereq Grad student or instr consent ;  
Instructor: Kelley, Steve  
Description: Course will focus on budget principles and processes at the state and federal levels. Topics will include budget development at the departmental level, the roles of the chief executive, the legislature and other key players. Style: 40% Lecture, 30% Discussion. Guests, videos, etc. Grading: 45% mid exam, 45% reports/papers, 10% class participation. Exam Format: Essay

PA 5113 State and Local Public Finance  
3 credit(s); prereq Grad student or instr consent ;  
Instructor: Zhao, PhD, Zhirong  
Description: State and Local Public Finance 3 credit(s); prereq Grad student or instr consent ;  
Instructor: Penny, Timothy J  
Description: Course will focus on budget principles and processes at the state and federal levels. Topics will include budget development at the departmental level, the roles of the chief executive, the legislature and other key players. Style: 40% Lecture, 30% Discussion. Guests, videos, etc. Grading: 45% mid exam, 45% reports/papers, 10% class participation. Exam Format: Essay

Assignments: 1. Reflections ? Each learner is responsible for posting a written reflection on assigned readings five times during the semester on the course website. 2. Comments ? Each learner is expected to post one thoughtful query (conversation starter) and four responses to other learners? queries five times during the semester. 3. Working Paper ? 15-page case study or scholarly paper documenting action research related to the course. Also acceptable is a shorter teaching case and supporting notes and references. Grading: 35% reports/papers, 25% reflection paper, 30% class participation, 10% other evaluation.

Instructor: Ritter, Joe  
Description: Student may contact the instructor or department for information.
Description: Theory/practice of financing. Providing public services at state/local level of government. Emphasizes integrating theory/practice, applying materials to specific policy areas, and documenting wide range of institutional arrangements across/within the 50 states.

PA 5190 Topics in Public and Nonprofit Leadership and Management: Integrative Leadership
2 credit(s), max credits 9, 3 repeats allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent;
Instructor: Vaaler, Paul Martin

Description:

PA 5190 Topics in Public and Nonprofit Leadership and Management: Integrative Leadership
2 credit(s), max credits 9, 3 repeats allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent;
Instructor: Crosby, Barbara C

Description:

PA 5190 Topics in Public and Nonprofit Leadership and Management: Government, Ethics, and the Public Will
3 credit(s), max credits 9, 3 repeats allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent;
Instructor: Stone, Paul Clois

Description: Student may contact the instructor or department for information.

PA 5204 Urban Spatial and Social Dynamics
3 credit(s); prereq Grad student or instr consent;
Instructor: Goetz, Edward Glenn

Description: Student may contact the instructor or department for information.

PA 5221 Private Sector Development
3 credit(s); prereq Grad or instr consent;
Instructor: Brown, Peter H

Description: While policy-makers, public administrators, planners, and members of the community all play their parts, in the end, it is private sector developers who really build our cities. Developers use a wide variety of tools, skills, and resources to identify, analyze, and capitalize on opportunities that often are not apparent to their competitors or the public. Developers are also very entrepreneurial, as they play for high stakes and must possess an extraordinary tolerance for both ambiguity and risk if they are to realize their creative visions and their anticipated profits. This course is for those students interested in gaining an understanding of how the real estate development process works from the viewpoint of the private developer. The course is designed to promote an understanding of the structure of urban real estate markets, the techniques of analysis and planning for real estate development, and the leadership and management skills required to see a project through to completion. It emphasizes quantitative methods including site and building analysis, market analysis, and economic analysis through the creation and manipulation of pro-forma financial statements. At the same time students will be required to consider qualitative issues such as a developer's background, temperament, goals, and access to resources as well as the importance of fit between a developer, a project, and other team members and actors including equity partners and lenders, architects and builders, government, and other local interests. By applying these qualitative and quantitative methods of analysis to actual projects, students will gain personal insight into the developer's decision-making process. Through facilitated discussion of case studies as well as exercises, mini-lectures, and guest presentations, students will come to understand how, in a decision-making process. The focus of the course will be on the acquisition, development, ownership, operation, and disposition of rental real estate, with an emphasis on the four main product categories - commercial, retail, industrial, and multi-family residential. Attention will also be given to for-sale housing and condominiums, land development, non-profit development, and large scale urban redevelopment.

The course will consider the reconciliation of private interests with public goals, however in doing so it will take a distinctly private market viewpoint.

Style: 20% Lecture, 70% Discussion, 5% Field Trips, 5% Guest Speakers. Almost the entire class time every week will be dedicated to facilitated discussions about cases and subjects. This requires preparation and active participation by the student.

Grading: 30% final exam, 20% reports/papers, 30% written homework, 5% attendance, 10% class participation, 5% other evaluation. The course is based on the case study method of learning and 40% of a student's grade is derived from completing and submitting case write-ups on time and participation in class discussions.

Exam Format: The final exam will be a take home case study exam.

PA 5251 Strategic Planning and Management
A-F only, 3 credit(s); prereq Grad student or instr consent;
Instructor: Bryson, John M

Description: Theory/practice of strategic planning/management for governments, public agencies, and non-profit organizations. How to promote strategic thinking/acting by policy-making bodies and management teams. Determining what an organization should do, how it should do it, and why. Lectures, case discussions. The course is aimed primarily at graduate students, but may be suitable for advanced undergraduates.

Style: 50% Lecture, 50% Discussion.

Grading: 90% reports/papers, 10% class participation.

PA 5261 Housing Policy
A-F only, 3 credit(s); prereq Grad or instr consent;
Credit will not be granted if credit has been received for: DHA 5463;
Instructor: Crump, Jeffrey R

Description: Student may contact the instructor or department for information.

PA 5290 Topics in Planning: Current Planning Practice Short Course
1 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent;
Instructor: Martin, Judith A

Description: This class focuses on what planners do -- the kinds of projects they work on, the kinds of environments that they work within, the types of challenges that they face in their work. The class uses the expertise of working planners throughout the Twin Cities (some of them HHH grads) to frame the discussions.

Style: 40% Discussion, 60% Guest Speakers.

Grading: 75% reports/papers, 10% in-class presentation, 15% class participation.

PA 5290 Topics in Planning: Planning Decision Support Systems
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent;
Instructor: Bolan, Richard Stuart

Description: New technological development in computing and telecommunications has made it possible to significantly enhance public participation in the urban and regional planning process. The key advances have been the development of GIS software, improvements in simulation modeling, 3D visualization/animation software and the internet. In both public meetings and sitting at the home computer, citizens can explore with urban planners the spatial, fiscal, design and environmental implications of a scenario of what if 98 scenarios and in democratic fashion work out visions, goals, objectives and action plans for their region, city or neighborhood. The goal of this course is to provide those enrolled with the ability to understand and apply the linking of science and citizen participation in planning within the use of computational model simulation software and to understand the varying contexts of citizen participation made possible by this software in community meetings, visioning events, community field surveys, and internet interactions. We will also investigate rudimentary skill in designing software for participatory decision-making.
PA 5301 Population Methods and Issues for the United States and Third World  
3 credit(s); prereq Grad student or instr consent;  
Instructor: Levenson, Deborah  
Description: This course surveys population trends and issues and teaches basic demographic methods. Topics include fertility, mortality, and the demographic transition; population growth and the environment; infant mortality; sexuality and the control of fertility; US trends in family structure; and aging. The course is aimed at Master’s and Ph.D. students but serious upper-level undergraduates are welcome. The course will be "web enhanced" but the home page will be available only to registered students.  
Style: 40% Lecture, 60% Discussion.  
Grading: 35% reports/papers, 5% special projects, 20% quizzes, 10% in-class presentation, 5% class participation, 10% problem solving, 15% other evaluation. weekly 1 page reactions to readings  
Exam Format: problem solving

PA 5311 Program Evaluation  
3 credit(s); prereq Grad student or instr consent;  
Instructor: Bloember, Laura L  
Description: This course will explore the complexities and realities of conducting evaluation studies in community-based settings, including schools, non-profit organizations, and collaborative initiatives. The class will use a case study approach to compare and contrast different evaluation projects from establishing guiding evaluation questions to instrumentation, data collection, and analysis, and presentation of findings to multiple audiences. Primary emphasis will be on evaluation ethics, theory-based evaluation and logic modeling in real world settings. Over the course of the semester, students will design and develop their own comprehensive evaluation plan for a selected program. "The art of evaluation involves creating a design and gathering information that is appropriate for a specific situation and particular policymaking context. In art there is no single, ideal standard. Beauty is in the eye of the beholder, and the evaluation beholders include a variety of stakeholders: decision makers, policy makers, funders, program managers, staff, program participants, and the general public. Any given design is necessarily an interplay of resources, practicalities, methodological choices, and personal judgments by the people involved". (Michael Quinn Patton, 2004)  
Style: 30% Lecture, 30% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.  
Grading: 20% reports/papers, 30% special projects, 20% written homework, 20% in-class presentation, 10% class participation.

PA 5405 Implementation of Social Policy  
A-F only, 3 credit(s);  
Instructor: Sandfort, Jodi R.  
Description: This course examines issues in the implementation of social programs and policies. It explores implementation as an integral, dynamic and often unpredictable component of the policy-making process. Social policies are not only created by elected officials, who authorize and fund government activities, but also by state administrators, local managers, front-line staff, policy clients and advocates. Because these actors create the operating procedures, establish the goals, distribute the scarce resources, and react to new policy initiatives in contradictory ways, implementation is not a straight-forward, linear process. In social policy, implementation almost always involves negotiation between different levels of government and/or nonprofits in decentralized service delivery systems. As a result, the implementation of social policy often involves unexpected detours and introduces outcomes that are unanticipated by policy makers or analysts. This course provides students skills to better understand and navigate these dynamics. Because implementation is inherently a social process, it requires skillful actors who can both analyze situations and work effectively with others to direct resources, manage competing demands, and move toward positive social outcomes. As such, students need to cultivate their abilities to be analytical, reflective and adaptive.  
Style: 25% Lecture, 10% Film/Video, 15% Discussion, 30% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.

PA 5412 Aging and Disability Policy  
3 credit(s); prereq Grad or instr consent;  
Instructor: Eustis, Nancy N  
Description: This course presents an overview of major public policies and programs benefiting seniors and younger adults with disabilities, including income support, Medicare and Medicaid, long-term services and supports, civil rights laws affecting employment, transportation, access, housing among others, and community engagement. For each area, we consider major decisions confronting policy makers, due largely to demographic trends and budget deficits. An important part of the debate concerns the role of government and whether seniors (and to a lesser extent, persons with disabilities) should assume more personal responsibility in dealing with the exigencies of aging and disability. The course covers topics related to both aging and disability, because these populations have similar needs and are served by many of the same public entitlement and other programs. In addition advocates for both populations are exploring opportunities for shared programs and joint political action.

PA 5442 Policy Design for Education and Human Development  
3 credit(s); prereq Grad or instr consent;  
Instructor: Hoenack, Stephen A  
Description: Student may contact the instructor or department for information.

PA 5452 Immigration and Public Policy  
3 credit(s); prereq Grad student or instr consent;  
Instructor: Fennelly, Katherine  
Description: Student may contact the instructor or department for information.

PA 5490 Topics in Social Policy: Search for Children and Youth Policy in the U.S.  
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent;  
Instructor: Schneider, Byron J  
Description: Selected topics.

PA 5490 Topics in Social Policy: Civic Participation in Urban Poor Neighborhoods  
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent;  
Instructor: Terrell, Teresa M.  
Description: PA 5490 CIVIC PARTICIPATION IN URBAN POOR NEIGHBORHOODS: THEORY, STRATEGIES AND STRUCTURES Spring 2009 3 credits, Monday/ Wednesday 4:00 - 5:15 p.m. Professor Teresa Terrell (terre058@umn.edu) Economically disadvantaged neighborhoods tend to be viewed as dangerous places inhabited by dangerous and/or apathetic residents. Rather than dismissing all low-income neighborhoods as deficient in social capital, this course is designed to help students develop an understanding of how civic participation is activated and sustained in urban poor neighborhoods and the role that poverty and gender play in participation and leadership in these neighborhoods. We will examine theory and research across several disciplines that focus on the activation and maintenance of civic participation, paying special attention to the social movement, social capital and civic engagement literatures. Using observational data from a two year study of participation in four urban poor neighborhoods, we will investigate the government and civic structures of neighborhoods and the strategies employed by neighborhood leaders that both encourage and discourage neighborhood participation. Readings will include: David E. Campbell (2006), Why We Vote: How Schools and Communities Shape our Civic Life. Princeton, NJ: Princeton University Press. Susan Saegert, J. Phillip Thompson & Mark R. Warren (2001). Social Capital in Poor Communities. New York: Russell Sage Foundation. Charles E. Connerly (2005). "The Most Segregated City in America?" City Planning and Civil Rights in Birmingham, 1920-1980. Charlottesville, VA: University of Virginia Press. Peter Dreier, John Mollenkopf &...
Todd Swanstrom (2001). Place Matters: Metropolitics for the Twenty-first Century. Lawrence, KS: University of Kansas Press. Evaluation of student performance will be based on a combination of active seminar participation, written discussion papers and a theoretically-informed, empirically-based policy proposal that addresses the problem of low participation in urban neighborhoods.

PA 5501 Economic Development
4 credit(s); prereq Grad student or instr consent ;
Instructor: Friedemann-Sanchez,Greta
Description: Economic development theories/strategies throughout world. Competing theoretical paradigms. Policy debates. Poverty/inequality, rural development, trade policy, human capital, the environment.

PA 5521 Development Planning and Policy Analysis
4 credit(s); prereq 5501 or Concurrent registration is required (or allowed) in 5501 or 8204 or Concurrent registration is required (or allowed) in 8204 recommended; Instructor: Assaad,Ragui A
Description: Student may contact the instructor or department for information.

PA 5522 International Development Policy, Families, and Health
3 credit(s); prereq Grad student or instr consent ;
Instructor: Friedemann-Sanchez,Greta
Description: Student may contact the instructor or department for information.

PA 5590 Topics in Economic and Community Development:
Arts, Cities, and Economic Development
2 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent ;
Instructor: Markusen,Ann R
Description: Student may contact the instructor or department for information.

PA 5601 Survey of Women, Law, and Public Policy in the United States
3 credit(s); prereq Grad or instr consent ;
Instructor: Laughlin,Kathleen Anne
Description:

PA 5690 Topics in Women and Public Policy: Race, Gender, and Health Policy
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent ;
Instructor: Santos,Sonia Beatriz dos

Patricia H. Collins, Black Sexual Politics: African Americans, Gender, and the New Racism (2004). ? Thomas LaVeist, (ed.), Race, Ethnicity and Health: A Public Health Reader (2003). Evaluation of student performance will be based on a combination of active seminar participation and role in discussion, essay, and a Local ethnographic fieldwork project (researching your local community through a particular issue of your research interest) in which the students are required to employ the concepts that provide the basis for the course.

PA 5801 Global Public Policy
3 credit(s); prereq Grad student or instr consent ;
Instructor: Kudre,Robert T
Description: U.S. general diplomacy, security policy, foreign economic policy and international technology policy. Emphasizes analysis of security, trade, investment, monetary policy, tax policy, immigration policy, technology sharing and environmental cooperation.
Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.
Exam Format: Essay

PA 5801 Global Public Policy
3 credit(s); prereq Grad student or instr consent ;
Instructor: Atwood,J. Brian
Description: U.S. general diplomacy, security policy, foreign economic policy and international technology policy. Emphasizes analysis of security, trade, investment, monetary policy, tax policy, immigration policy, technology sharing and environmental cooperation.
Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.
Exam Format: Essay

PA 5890 Topics in Foreign Policy and International Affairs: Crisis Management
1.5 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent ;
Instructor: Andreasen,Steven Peter
Description: Selected topics.

PA 5890 Topics in Foreign Policy and International Affairs: US Intelligence Organization, Policy, Practice
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent ;
Instructor: Borene Esq,Andrew M.
Description: U.S. Intelligence Organization, Policy, and Practice will introduce students to intelligence concepts, provide them with the tools necessary to evaluate intelligence policy, and prepare them for further graduate studies in the national security field. Through assigned readings, classroom discussion, lecture, and guest speakers, we will address the historical development of the U.S. intelligence community and address current issues such as the role of contractors and foreign surrogates in the intelligence community, domestic intelligence collection, the Foreign Intelligence Surveillance Act, extraordinary rendition, the use of coercive interrogation methods, and other issues directly linked to the use of the intelligence as an instrument of United States government policy. The first portion of the class will present the organization and fundamentals of intelligence, defining the discipline, providing an overview of the basic sources of intelligence, presenting the concept of the "intelligence cycle", and tracing the history of intelligence organization in the United States from the revolution through the modern day. The second portion of the class will look at current U.S. intelligence policy, including oversight mechanisms, the historical role of the intelligence community in our American system of government, and modern efforts at intelligence reform. The final segment of the class will include an investigation of the ethical dilemmas faced by intelligence practitioners and policymakers in any era, in addition to specific dilemmas posed by the ongoing war on terrorism and resulting from modern collection capabilities. Andrew Borene is an attorney and former U.S. Marine Intelligence Officer with academic and professional

Style: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
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Grading: 10% class participation.
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Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
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Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
25% mid exam, 35% final exam, 30% reports/papers, 70% Lecture, 30% Discussion.
Grading: 10% class participation.
experience in national security policy, law, finance and politics. Borene has worked with the media on security, veterans and political issues by providing guidance and commentary. He has written op-ed pieces for The New York Times, The Baltimore Sun, The Minneapolis Star-Tribune and other papers. He has also appeared on CNN’s Anderson Cooper, Fox, ABC News, BBC/PRRI’s "The World", National Public Radio and on local television and radio networks to discuss the ongoing war on terrorism. Please see last year’s syllabus for further information. Grading: 30% mid exam, 30% in-class presentation, 10% class participation, 30% other evaluation. -- Op-Ed piece (700 words or less) Exam Format: -- One short answer/multiple choice exam and -- One brief student presentation on an intelligence topic

PA 5890 Topics in Foreign Policy and International Affairs: Globalization and the World Food Economy
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent ; Instructor: Johnson, Robbin S Description: The course examines the effects of markets, governmental policies and the process of globalization on world food, feed and fuel from biomass production. The course begins with a look at why agricultural issues are important both in developed countries and in poorer countries struggling to escape their poverty and hunger. It reviews the kinds of policy choices that are made with respect to agricultural production, international trade and, more recently, biofuels development. It looks at how these issues and the policy choices made with respect to each have evolved. It compares those choices with their effects. And it asks whether alternative policy choices would be better, in what ways and for whom. (See syllabus on Course Guide for more information.)

PA 5912 Politics of Public Affairs and Civic Engagement
A-F only, 3 credit(s); prereq Grad student or instr consent ; Instructor: Boyte, Harry C Description: The Politics of Civic Engagement will explore the growing cross-disciplinary "civic field" whose centerpiece is civic agency -- the capacities of communities and whole societies to work collaboratively on common challenges and tasks. Civic capacity involves questions of institutional design and cultural life, as well as individual skills and dispositions. We will also explore the potential for public affairs professionals to be agents of change and civic capacity building. Style: 20% Lecture, 30% Discussion, 20% Small Group Activities, 15% Student Presentation, 15% Service Learning.

PA 5920 Skills Workshop: Community Organizing for Effective Public Policy
2 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or instr consent ; Instructor: Donovan, Dennis Michael Description: Student may contact the instructor or department for information.

PA 5920 Skills Workshop: Effective Grantwriting in Public Affairs
1 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or instr consent ; Instructor: Rojas, Allison Langell Description: Student may contact the instructor or department for information.

PA 5920 Skills Workshop: Foundations of Ethical Practice in Public Affairs
Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class University of Minnesota - Course Guide for Twin Cities Campus Spring 2009

PA 8001 Transforming Public Policy
A-F only, 4 credit(s); prereq 5941 or instr consent;
Instructor: Walkington, Thomas A
Description: Development of interdisciplinary understanding of one or more policy areas through explorations of theory, readings, cases, and model-building exercises. Articulating policy/system improvements and leadership implications for formulating/implementing them.

PA 8081 Capstone Workshop: Education Issues
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Nathan, Joe
Description: An Education Capstone beginning in January, 2008 will deal with two major issues. Humphrey Institute students participating in this capstone will have the opportunity to select among these two projects. For more information, please contact Joe Nathan, jnathan@umn.edu. 1. The impact of a college scholarship program for low income students, in cooperation with the Optimist Club in St. Paul, and 2. Policies and procedure related to educating English language learners, and awarding of course credit for students learning English, in cooperation with a number of high school students and Children/Family Services College Scholarship Project: Preliminary discussions with the Optimist Club have produced these tentative questions for examination via surveys of students who received college scholarships. (These questions will be refined by HHH students) 1) Do you remember receiving a scholarship from the Optimist Club of St Paul's "Youth Appreciation" program? If so can you tell us about what this meant to you? 2) How has your pursuit of education helped you and your family? If so how? 3) If you had not received scholarship awards from groups like the Optimist Club would you have been able to pursue your education? Can you talk about how these awards made a difference? 4) What are you most proud of when you think about your education achievements and where do you hope your education takes you? English Language learning project: Do several area school districts have written plans for the education of English language learners? What are the implications of their plans (or lack of) for students and school systems (i.e. segregation, meeting graduation requirements, student success, and disparities in success when compared to other students)? Are their plans (or lack of) legal? Have other options for educating English language learners been proven successful by other districts/schools? New immigrant students involved in our School Change Action Committee want to receive credit for proficiency in their first language, which may include taking classes or testing for credit. Have any schools developed successful models for this? What are the benefits (or pitfalls if any) to the students when such models are incorporated into their education?

PA 8081 Capstone Workshop: Community Economic Development Finance
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Campbell, Candace D
Description: Student may contact the instructor or department for information.

PA 8081 Capstone Workshop: Managing Collaborations
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Stone, Melissa M
Description: Student may contact the instructor or department for information.

PA 8081 Capstone Workshop: Economic and Community Development
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Stone, Melissa M
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
PA 8081 Capstone Workshop: Planning for Affordable Housing in the Suburbs
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Goetz, Edward Glenn
Description: Student may contact the instructor or department for information.

PA 8081 Capstone Workshop: Evaluation of Long-Term Homelessness Program
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Hanratty, Maria J
Description: Student may contact the instructor or department for information.

PA 8081 Capstone Workshop: Sustainability Planning
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Slotterback, Carissa Schively
Description: Student may contact the instructor or department for information.

PA 8081 Capstone Workshop: Climate Change and Technosystem
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Wilson, Elizabeth Joan
Description: Project external client on issue agreed upon by student, client, and instructor. Students apply interdisciplinary methods, approaches, and perspectives studied in core courses to the issue. Written report includes analysis of issue and policy recommendations. Oral presentation of major findings. Concentration/topic vary term-to-term.

PA 8081 Capstone Workshop: Engaging the Public in Policy
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Hesser, Garry William
Description: Student may contact the instructor or department for information.

PA 8082 Working Group: Education Policy
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Hoenack, Stephen A
Description: Student may contact the instructor or department for information.

PA 8082 Working Group: Technology Policy
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Kuzma, Jennifer
Description: Facilitates completion of research paper on current issue in public policy and management. Students apply interdisciplinary methods, approaches, and perspectives studied in core courses. Written report includes analysis of issue, policy recommendations. Concentration/topic vary term-to-term.

PA 8082 Working Group: Migration-related Topics
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Fennelly, Katherine
Description: Student may contact the instructor or department for information.

A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Levison, Deborah
Description: 

PA 8082 Working Group: Global Policy
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Kudrle, Robert T
Description: This working group (as others) aims to help 2nd year (and beyond) MPP students complete their individual professional papers by the end of Spring semester. All members are expected to make some progress on their papers between meetings. Each meeting will include: 1) a brief report on your progress 2) participation in the discussion of others? work 3) delivery of promised specific reactions to assigned colleagues? work The group will begin by asking for volunteers to comment in writing on the work plans or the work product of one other person. Following our second meeting, most of your effort outside of class will be devoted to: 1) making progress on your own paper and 2) providing useful comments on draft sections of various lengths of someone else?s paper. Both the interim product and the comments on it must be provided to the instructor prior to the class meeting.

PA 8082 Working Group: Climate Change & Technology
A-F only, 3 credit(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent;
Instructor: Wilson, Elizabeth Joan
Description: This course is a workshop practicum, designed as...
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Spring 2009

a capstone experience for students completing their Master's degrees in Public Policy (MPP) and Public Affairs (MPA). As such, it will push you to apply the analytical and practical skills you have developed in your academic training and showcase your performance in grappling with "real world" problems. The course is designed to help you learn reflective practice, which takes foundational knowledge and applies it to fluid practice situations after deliberation. In the course, we will draw upon substantive readings to ground our analysis of the nuanced relationships between government agencies and the nonprofit organizations that often implement government programs. For 2008, students will work on one of three projects. Classroom seminars will focus on relevant readings, workshop experiences and supporting field-based research: 1) In 2003, Ramsey Cty Workforce Solutions identified significant disparities in employment/sanction/exit rates for African American participants involved in Minnesota Family Investment Program (MFIP). Research will explore why/how welfare system creates disparities, document formation of partnership, delineate program theory, & recommend feasible eval methodologies. 2) In 2005, MN Early Learning Fdn (MELF) was created through a partnership of leaders from fnn, corp & civic sectors to address growing concerns about lack of school readiness among many children entering kindergarten. Consulting team will undertake such research about Minnesota's system of funding early education and care. Starting from conditions that support parents & nurture children's dev, research, will make recommendations of how existing system can be redesigned to maximize positive impacts for families. 3) Affirmative Options is coalition of 50 + orgs who work on pol advocacy focused on creating opps for women, men & children to move out of poverty. Consulting team will focus on frontlines of welfare system & document extent to which workers are devoting time to monitoring behavior of low-income families. They will also focus on interviews with MN leaders about history of state's low poverty rates & innovative public policies. Research to form basis of report to MN Legislative Commission to End Poverty Commission, our Coalition & broader public.

PA 8202 Networks and Places: Transportation, Land Use, and Design
A-F only, 4 credit(s); prereq credit will not be granted if credit received for: 8212; [urban and regional planning] grad student or instr consent;
Instructor: Cao, Jason
Description: Description Pick up a newspaper or watch the news and you're likely to find a story about transportation problems in the U.S. metropolitan areas, most notably sprawl and congestion, and the multitude of problems that come with them?economic inefficiencies, global warming, air pollutants, oil dependency, social inequities, safety concerns, etc. Although most people agree on the problems, few agree on the solutions. As a result, policy makers and planners have proposed and implemented various land use and transportation policies including urban growth boundary, development fees, smart growth development, investments in rail systems, expansion of the freeway system, value pricing strategies, and so on. These policies would impact both transportation and land use because the latter two are inextricably linked. The construction of a new transportation facility, such as a freeway or a light rail line, is likely to influence the nature and location of new development in the corridor. The nature and location of development is likely to affect patterns of travel for residents of the area. An understanding of land use-transportation interactions is critical to the solution of transportation and its related problems confronting large metropolitan areas. This course will cover key theories and practices, research methodologies and findings, traditional and emerging policy approaches, and techniques for forecasting. My goal for the course is to introduce students to the essential concepts, influential thinkers, and important debates associated with the land use-transportation field that may be appropriate for future thesis/professional paper.

PA 8204 Creating Good Work: Economic and Workforce Development
A-F only, 4 credit(s);
Instructor: Markusen, Ann R
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Donovan, Dennis Michael
Description: None.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Barnett, Michael Nathan
Description: None.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Hoenack, Stephen A
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Kuzma, Jennifer
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Friedemann-Sanchez, Gretta
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Stone, Melissa M
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Jacobs, Lawrence Rubin
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Fennelly, Katherine
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Bryson, John M
Description: Student may contact the instructor or department for information.

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PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Myers Jr, Samuel L
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Crosby, Barbara C
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Levison, Deborah
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Goetz, Edward Glenn
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Kleiner, Morris M
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Eustis, Nancy N
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Kenney, Sally J
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Kudrle, Robert T
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Assaad, Ragui A
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Hanratty, Maria J
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Markusen, Ann R
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Cao, Jason
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Sandfort, Jodi R.
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Atwood, J. Brian
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Kiedrowski, P. Jay
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Wilson, Elizabeth Joan
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Temple, Judy
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Zhao PhD, Zhirong
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Soss, Joe
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Allen, Ryan Patrick
Description: Student may contact the instructor or department for information.
Public Health
A-302 Mayo (Box 197)

PUBH 3001 Personal and Community Health
2 credit(s);
Instructor: Farley, Dana Mark
Description: Introduction to scientific, socio-cultural, and attitudinal aspects of communicable and degenerative diseases, environmental and occupational health hazards, alcohol and drug problems; emphasis on role of education in health conservation, disease control, and drug use. The full syllabus for the course, including lecture outlines, textbook and exam information, can be found at the course URL listed below.
Style: 100% Lecture.
Grading: 40% final exam, 10% reports/papers, 25% other evaluation. on each of two mid-term exams
Exam Format: Multiple choice, fill-in-the-blank, short answer

PUBH 3003 Fundamentals of Alcohol and Drug Abuse
2 credit(s); Credit will not be granted if credit has been received for: PUBH 3004
Instructor: Farley, Dana Mark
Description: Lecture and special readings on the scientific, sociocultural and attitudinal aspects of alcohol and other drug problems, with special emphasis on incidence, prevalence, high risk populations, prevention, and interventions. The full syllabus for the course, including lecture outlines, textbook and exam information, can be found at-a
Style: 100% Lecture.
Grading: 40% final exam, 10% reports/papers, 50% other evaluation. two midterm exams (25% each)
Exam Format: multiple choice

PUBH 3052 Practicum in Peer Education II
A-F only, 2 credit(s); prereq [Upper div student, [demonstrated hth sci or hlth ed interests], [3001 or Concurrent registration is required (or allowed) in 3001 or 3004 or Concurrent registration is required (or allowed) in 3004]]], instr consent
Instructor: Ehlinger MD, Edward Peter
Description: Student may contact the instructor or department for information.

PUBH 3093 Directed Study: Public Health
1-4 credit(s), max credits 4, 4 repeats allowed; prereq instr consent
Instructor: Farley, Dana Mark
Description: Student may contact the instructor or department for information.

PUBH 3639 Prevention: Theory, Practice, and Application in Public Health Services
3 credit(s); prereq Jr or sr;
Instructor: Shanedling PhD, Stanton Barry
Description: Student may contact the instructor or department for information.

PUBH 3801 Health Economics and Policy
3 credit(s); prerequisite Course on microeconomics, course on basic statistics; Credit will not be granted if credit has been received for: APEC 3801
Instructor: Karaca Mandic, Pinar
Description: Student may contact the instructor or department for information.

PUBH 6020 Fundamentals of Social and Behavioral Science
A-F only, 3 credit(s), max credits 6; prereq Public health [MPH or MHA or certificate] student or health journalism MA major or instr consent
Instructor: Jones-Webb, Rhonda Jean
Description: Student may contact the instructor or department for information.

PUBH 6034 Program Evaluation for Public Health Practice
3 credit(s); prereq [[Community Health Education or Maternal/Child Health or Public Health Nutrition]] MPH major] or instr consent
Instructor: Harwood PhD, Eileen M.
Description: This course will survey several dimensions of practical health program evaluation with emphases on meeting the needs of community program administrators and planners. We will cover such things as: the purpose and uses of evaluation; differences between program evaluation and evaluation research; standards for good program evaluations (i.e., utility, feasibility, propriety, and accuracy); how logic models are used to describe program goals and objectives; the influence of a program’s developmental stage on determining an appropriate evaluation plan; characteristics of good evaluation questions; standards for measuring program effectiveness; evaluation designs and approaches; the importance of engaging stakeholders in the evaluation process; the importance of high quality, reliable and valid evaluation data that are appropriate to the selected design and analysis methods; the context or environment in which a program operates (i.e., confounding variables such as politics, history, social norms, and competition); how to interpret and disseminate evaluation findings that will be used; and the role of evaluators in society. The course’s structural emphasis is highly participatory as instruction is designed to stimulate critical thinking; therefore, lectures are minimized and student interactions are maximized with practical examples and application of the reading materials.
Style: 10% Lecture, 40% Discussion, 30% Small Group Activities, 10% Demonstration, 5% Guest Speakers, 5% Web Based. The course textbook readings are critical to class time discussions and activities, and class time may be used to re-read, discuss, apply, and evaluate that material.
Grading: 75% special projects, 25% other evaluation. 25% of the final grade is based on team performance throughout the semester; peer evaluation.
Exam Format: No exams are given for this course.

PUBH 6045 Skills for Policy Development
1 credit(s); prereq Grad student in public health, previous policy related coursework;
Instructor: Toomey, Traci Louise
Description: Students will identify a public health-related policy issue at the local, state, or federal level that they will focus on throughout the course. This course focuses on developing skills that are relevant to policy development and implementation. Class meetings will include a combination of lectures, guest speakers, and skill-development sessions. Students will be expected to actively participate. The goals of this course are: (1) To introduce students to strategies used to influence and shape public policy development; (2) To develop skills and self-efficacy to implement these strategies; (3) To apply these skills to one policy issue related to public health. As a result of this course, students will understand how to: (1) Use strategies to effectively use media to influence policy change; (2) Give an effective media interview; (3) Structure and give effective testimony; (4) Develop fact sheets and other written materials for legislators and media; (5) Communicate with elected officials; (6) Understand different strategies for influencing policy changes. Course Prerequisites The course is intended for graduate students who have an interest in public health policy and have previous policy-relevant coursework. This course serves as the capstone course for the SPH policy concentration.
Style: 10% Lecture, 40% Film/Video, 30% Small Group Activities, 40% Guest Speakers.
Grading: 70% written homework, 30% class participation.

PUBH 6049 Legislative Advocacy Skills for Public Health
A-F only, 3 credit(s); prereq 6076, instr consent
Instructor: Toomey, Traci Louise
Description: Students will enroll in this course spring semester for 3 credits. Each student will be assigned to work with a lobbyist for a non-profit agency, a legislative staff person, or a legislative liaison from a public health organization. With the help of that person, the student will identify one or two issues which will be addressed in the 2007 legislative session, and follow that...
issue from beginning to end at the legislature. The lobbyists have agreed to permit the student to accompany him or her at functions and meetings related to the issue, so that the student will learn firsthand the political skills necessary to see an issue through the session. In addition, students will be required to participate in the necessary background work (developing materials, calling constituents, researching the issue, helping to organize testimony). The primary goal of this course is to match students with organizations that: (1) take positions on issues that are supported by public health, and have strong legislative advocacy experience. Pro public health issues will be defined based on current APHA policy positions, if they are available, or on instructor judgment, if APHA has not taken a position on the issue. Although we try to match students based on their interests, we believe matching students with organizations with experience working on state-level policy issues is more important than working on specific content issues. Students will be required to commit a minimum of 8 hours per week on average to the course, with the expectation that those hours will be used flexibly depending upon how their issue proceeds through the legislature.

**Style:** There will be 10 class periods. Two class periods will be scheduled after the course begins. One of these will be for a tour of the Capitol and the other will be the final two-hour class to review what happened during the legislative session.

**Grading:** 35% reports/papers, 30% written homework, 35% class participation.

**PUBH 6049 Legislative Advocacy Skills for Public Health**

A-F only, 3 credit(s); prereq 6078, instr consent

**Instructor:** Forster, Jean

**Description:** Students will enroll in this course spring semester for 3 credits. Each student will be assigned to work with a lobbyist for a non-profit agency, a legislative staff person, or a legislative liaison from a public health organization. With the help of that person, the student will identify one or two issues which will be addressed in the 2007 legislative session, and follow that issue from beginning to end at the legislature. The lobbyists have agreed to permit the student to accompany him or her at functions and meetings related to the issue, so that the student will learn firsthand the political skills necessary to see an issue through the session. In addition, students will be required to participate in the necessary background work (developing materials, calling constituents, researching the issue, helping to organize testimony). The primary goal of this course is to match students with organizations that: (1) take positions on issues that are supported by public health, and (2) have strong legislative advocacy experience. Pro public health issues will be defined based on current APHA policy positions, if they are available, or on instructor judgment, if APHA has not taken a position on the issue. Although we try to match students based on their interests, we believe matching students with organizations with experience working on state-level policy issues is more important than working on specific content issues. Students will be required to commit a minimum of 8 hours per week on average to the course, with the expectation that those hours will be used flexibly depending upon how their issue proceeds through the legislature.

**Style:** There will be 10 class periods. Two class periods will be scheduled after the course begins. One of these will be for a tour of the Capitol and the other will be the final two-hour class to review what happened during the legislative session.

**Grading:** 35% reports/papers, 30% written homework, 35% class participation.

**PUBH 6051 Community Health Theory and Practice II**

A-F only, 3 credit(s); prereq [6050, community health education MPH major] or instr consent

**Instructor:** Toomey, Traci Louise

**Description:** This course was designed for Community Health Education students to provide them with information and skills needed to conceptualize, design, and implement programs that influence health-related behaviors. Goals: For students to learn a process for the development of population-level programs. In addition to reviewing the literature in an area of concern, students will participate in the design of an intervention program based on theory, etiological data, behavioral models, intervention objectives, and state-of-the-art community health education and behavior change methods. Another goal of the course is to acquire practical skills in implementing programs. Students will develop an implementation plan for the program they develop during the beginning of the course. Students will learn about (a) the opportunities and constraints of implementing programs/policy initiatives in various organizational settings and (b) how to design program materials, activity plans, timelines, and budgets. Finally, students will learn the basic requirements of grant writing by preparing a proposal for funding for their newly designed programs Objectives: 1. Learn about promising intervention approaches for selected health-related behaviors with an identified target group, including family, school, worksite, media or community-wide programs, as well as potential policy and environmental change initiatives. 2. Learn methods for developing programs and policies in different settings and for different populations. 3. Be able to write a plan for an intervention program for a given targeted group and behavior. 4. Be able to critically discuss some of the challenges of implementing programs in various organizational settings. 5. Be able to identify effective strategies for designing intervention materials for community-wide programs. 6. Be able to develop work plans, timelines, and budgets. 7. Will understand the importance of evaluation in development and implementation of programs and policies. 8. Will be able to write a brief proposal summarizing the newly developed program Course Prerequisites: PUBH 6050 and CHE major or instructor’s permission.

**Style:** 50% Lecture, 25% Small Group Activities, 25% Guest Speakers

**Grading:** 40% reports/papers, 40% written homework, 20% class participation.

**PUBH 6055 Social Inequalities in Health**

2 credit(s); prereq Hlth sci professional school student or hth sci or soc work or pub affairs grad student or instr consent

**Instructor:** Jones-Webb, Rhonda Jean

**Description:** This course examines strategies to reduce race, ethnic, and social class-based health disparities. The course specifically focuses on policy, community, institutional, and individual level strategies to reduce health inequities in the U.S. The course is designed for public health students. Students in other health professions (e.g., medicine, nursing) or human service professions (e.g. public affairs, social work) are also welcome. Consideration will be given to undergraduates on a case by case basis.

**PUBH 6074 Mass Communication and Public Health**

3 credit(s); prereq [One course in [behavioral or social science], [public health or journalism] grad student] or instr consent

**Instructor:** Yzer, Marco

**Description:** Student may contact the instructor or department for information.

**PUBH 6078 Public Health Policy As A Prevention Strategy**

2 credit(s); prereq 2nd yr [CHE or MCH or PubH Nutr or EPI MPH or EPI] major or instr consent

**Instructor:** Forster, Jean

**Description:** Student may contact the instructor or department for information.

**PUBH 6079 Obesity and Eating Disorders: Treatment, Prevention, and Policy**

2 credit(s);

**Instructor:** Pereira PhD, Mark A

**Description:** Student may contact the instructor or department for information.

**PUBH 6080 Seminar: Policy, Politics, and Ethics of Public Health Decision Making**

S-N only, 2 credit(s); prereq [2nd yr MPH or MS or Phd student in [CHE or EPI or MCH or PubH nutr or clin research] or public affairs or MS/JD or PhD/JD or 3rd yr law
PUBH 6101 Environmental Health
A-F only, 2 credit(s); prereq Public health [MPH or MHA or certificate] student or instr consent ; Instructor: Toscano Jr,William A
Description: This course explores the interaction between the environment and humans. The environment covers all aspects of the environment including physical, psychosocial, nutritional and chemical environment. How the environment affects human health is discussed. Principles of environmental health relating to macro and micro environments and products consumed or used by people. Global climate change and its effects on human health are discussed.
Style: 50% Lecture, 10% Small Group Activities, 30% Student Presentation, 10% Guest Speakers.
Grading: 50% reports/papers, 10% attendance, 25% in-class presentation, 15% class participation.

PUBH 6102 Issues in Environmental and Occupational Health
A-F only, 2 credit(s); prereq Public health [MPH or MHA or certificate] student or health journalism MA major or nursing MS student or instr consent ; Credit will not be granted if credit has been received for: PUBH 3102;
Instructor: Allwood,Paul Bancroft
Description: Student may contact the instructor or department for information.

PUBH 6105 Environmental and Occupational Health Policy
A-F only, 2 credit(s); prereq Environmental health major or instr consent ;
Instructor: McGovern,Patricia Marie
Description: Student may contact the instructor or department for information.

PUBH 6115 Worker Protection Law
1 credit(s); prereq 6114 credit will not be granted if credit received for: 5110;
Instructor: Austin,Michael L
Description: How do we protect workers? We will focus on the role of government in protecting rights of citizens. Labor movement history will serve as a starting point for a discussion of modern systems for protecting workers from unsafe work places and compensating them for injuries that do occur. Law will be reviewed that protects individuals against class based discrimination and creates a "frigh? to work. II. Learning Objectives At the end of this course, students should be able to: *Discuss the history of worker protection law *Describe the role of government in protecting the safety and well being of citizens *Discuss legal issues underlying several worker protection policies *Discuss the legal basis for compensation for injuries to health and property, and its application to worker protection *Demonstrate techniques of persuasive legal research, writing and oral presentation III. Methods of Instruction and Work Expectations Students are encouraged to introduce issues of current interest from the media or from their workplace for discussion. These issues will be incorporated into the curriculum when appropriate. Through lecture and discussion, we will focus on legal principles underlying law that protects our natural environment from pollution. Especially important will be a review of the increasing authority of government agencies to audit businesses to assure compliance with law. Underlying pollution protection law is sometimes contradictory law related to encouraging resource utilization, Constitutional protection against the uncompensated public taking of private property, and traditional tort rights. Each week students will write a short paragraph or one page outline that answers a question based on the reading assignment. Each student will conduct legal research and write five pages on the legal aspects of an environmental or public health problem. A rough draft must be submitted for review with the instructor before a final draft is submitted. The paper must advocate a public policy that might solve the problem, and include at least 10 primary references. Each student will prepare and present a 6-8 minute persuasive speech in class based on the legal research and writing project. Students will critique each other. Students will work in groups and prepare a classroom presentation regarding a public policy issue. Groups will review issues, identify stakeholders and advocate solutions. Presentations will be made from the perspectives of the various stakeholders. An outline of research materials with at least 10 primary references must be submitted.
Style: 70% Lecture, 25% Discussion, 5% Student Presentation.
Grading: 50% reports/papers, 30% written homework, 20% in-class presentation.

PUBH 6116 Environmental Law
1 credit(s); prereq 6114 credit will not be granted if credit received for: 5110;
Instructor: Austin,Michael L
Description: I. Course Description What legal principles protect us from pollution? Several difficult legal questions arise when pollution protection law conflicts with policy encouraging use of natural resources. Conflict also arises when the government restricts the use of property without compensating its owner. We will also consider the increasing authority of government agencies to audit businesses to assure compliance with law. II. Learning Objectives At the end of this course, students will be able to: *Discuss how the interests of stakeholders are balanced in legal decision making *Describe contradictions in the law between protecting the environment, and protecting individual property rights *Discuss the evolving authority of government to protect the environment *Discuss legal issues underlying several environmental public policies *Demonstrate techniques of persuasive legal research, writing and oral presentation III. Methods of Instruction and Work Expectations Students are encouraged to introduce issues of current interest from the media or from their workplace for discussion. These issues will be incorporated into the curriculum when appropriate. Through lecture and discussion, we will focus on legal principles underlying law that protects our natural environment from pollution. Especially important will be a review of the increasing authority of government agencies to audit businesses to assure compliance with law. Underlying pollution protection law is sometimes contradictory law related to encouraging resource utilization, Constitutional protection against the uncompensated public taking of private property, and traditional tort rights. Each week students will write a short paragraph or one page outline that answers a question based on the reading assignment. Each student will conduct legal research and write five pages on the legal aspects of an environmental or public health problem. A rough draft must be submitted for review with the instructor before a final draft is submitted. The paper must advocate a public policy that might solve the problem, and include at least 10 primary references. Each student will prepare and present a 6-8 minute persuasive speech in class based on the legal research and writing project. Students will critique each other.
Style: 75% Lecture, 20% Discussion, 5% Student Presentation.
Grading: 70% reports/papers, 20% written homework, 10% in-class presentation.

PUBH 6120 Injury Prevention in the Workplace, Community, and Home
2 credit(s);
Instructor: Gerberich PhD,Susan G
Description: Student may contact the instructor or department for information.

PUBH 6121 Topics: Injury Prevention in the Workplace, Community, and Home: Topics: Conflict, Agression, Anger and Violence
2 credit(s), max credits 2, 1 repeat allowed; prereq [6120, [6330 or 6341]] or instr consent ;
Instructor: Poltegal,Michael
Description: Student may contact the instructor or department for information.

PUBH 6130 Occupational Medicine: Principles and Practice
2-3 credit(s), max credits 3, 1 repeat allowed; prereq Environmental health major or instr consent ;
Instructor: Creaves,larry

PUBH 6133 Global Health Seminar  
S-N only, 1 credit(s); prereq Public health student or instr consent;  
Instructor: Alexander, Bruce H  
Description: Student may contact the instructor or department for information.

PUBH 6140 Occupational and Environmental Epidemiology  
2 credit(s); prereq Coursework in epidemiology, biostatistics;  
Instructor: Church, Timothy Robert  
Description: Student may contact the instructor or department for information.

PUBH 6150 Interdisciplinary Evaluation of Occupational Health and Safety Field Problems  
3 credit(s); prereq Environmental health major or instr consent;  
Instructor: Nachreiner, Nancy Martha  
Description: Guided evaluation of potential health and safety problems at work sites. Includes preparation of recommendations and design criteria for correction/evaluation of occupational health/safety programs. Prerequisite: Introduction to Occupational Health and Safety (PubH 6170).

PUBH 6160 Metabolomics  
3 credit(s); prereq [Coursework in biochemistry, molecular biology, organic chemistry] or instr consent;  
Instructor: Peterson, Lisa Ann  
Description: Student may contact the instructor or department for information.

PUBH 6172 Industrial Hygiene Applications  
2 credit(s); prereq [6170, environmental health major] or instr consent;  
Instructor: Brosseau, Lisa M  
Description: Student may contact the instructor or department for information.

PUBH 6174 Control of Workplace Exposure  
3 credit(s); prereq [Environmental health major, [industrial hygiene specialty or equiv]] or instr consent;  
Instructor: Raynor, Peter Cameron  
Description: Student may contact the instructor or department for information.

PUBH 6175 Environmental Measurements Laboratory  
A-F only, 2 credit(s); prereq 6190 or 6191 or instr consent;  
Instructor: Simick, Matt  
Description: Student may contact the instructor or department for information.

PUBH 6181 Surveillance of Foodborne Diseases and Food Safety Hazards  
2 credit(s); prereq 6320 or 6330 or 6341 or instr consent; Credit will not be granted if credit has been received for: VMED 5165;  
Instructor: Hedberg, Craig W  
Description: Student may contact the instructor or department for information.

PUBH 6182 Emerging Infectious Disease: Current Issues, Policies, and Controversies  
A-F only, 3 credit(s); prereq AHC student, instr consent;  
Instructor: Osterholm, Michael T  
Description: Student may contact the instructor or department for information.

PUBH 6191 Air Pollution  
A-F only, 3 credit(s); prereq [General, organic chemistry] or instr consent;  
Instructor: Simick, Matt  
Description: Student may contact the instructor or department for information.

PUBH 6210 Public Health Medicine Seminar  
S-N only, 1 credit(s); prereq [Public health medicine program MPH major or [MD degree or equiv], instr consent];  
Instructor: Lohman, William H  
Description: Student may contact the instructor or department for information.

PUBH 6303 Clinical Research Project Seminar  
2 credit(s); prereq [6301, clinical research major, master's project/thesis paper [underway or near completion]] or instr consent;  
Instructor: Thomas, William  
Description: This seminar is required for clinical research MS students. It allows them to present their thesis work in a preliminary form. This constitutes 50% of the class. The other 50% of the class is spent reviewing study proposals for the General Clinical Research Center (GCRC). Students critique these proposals for scientific integrity and ethical considerations.  
Style: 15% Lecture, 50% Discussion, 35% Student Presentation.  
Grading: 30% in-class presentation, 70% class participation.

PUBH 6305 Introduction to Clinical Research for Health Professionals  
2 credit(s); prereq [Bachelors degree or degree from health professional program or grad student in [dentistry or medicine or nursing or pharmacy or public health or veterinary medicine]], instr consent; Credit will not be granted if credit has been received for: PUBH 6301;  
Instructor: Luepker MD, Russell V  
Description: This course will provide learning opportunities on the design and implementation of clinical research protocols. It is an introductory course intended for nurses and other professional staff working in or preparing to work in a clinical research setting. It aims to enhance the knowledge and skills of research staff working in medical research in humans.  
Style: 80% Lecture, 20% Student Presentation.  
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 10% in-class presentation.

PUBH 6309 Clinical Research: Career Development  
S-N only, 1 credit(s), max credits 2; prereq CAPS scholar or AHC faculty/post-doctoral fellow in similar training stages or instr consent;  
Instructor: Luepker MD, Russell V  
Description: This course is intended to provide advanced skills for faculty development in an academic clinical research career. It includes paper and grant writing skills, interaction with AHC research resources, and career development advice. It emphasizes the opportunities of multidisciplinary approaches to contemporary research questions.  
Style: 20% Lecture, 40% Discussion, 40% Student Presentation.  
Grading: 10% attendance, 40% in-class presentation, 50% class participation.

PUBH 6320 Fundamentals of Epidemiology  
A-F only, 3 credit(s); prereq AHC or health journalism student or instr consent;  
Instructor: Punyko, Judy  
Description: Student may contact the instructor or department for information.

PUBH 6325 Data Processing with PC-SAS  
1 credit(s); prereq [Grad-level biostatistics course, [grad student or PubH student]] or instr consent;  
Instructor: Oakes, J Michael  
Description: Student may contact the instructor or department for information.

PUBH 6334 Human Behavior II  
A-F only, 2 credit(s); prereq [6333, Epidemiology grad student in behavioral track] or instr consent;  
Instructor: Hennikus, Deborah Jane  
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

PUBH 6342 Epidemiologic Methods II
3 credit(s); prereq [[6341 w/grade of at least a B- or 6320 w/grade of at least an A-], [6414 or 6450 with a grade of at least a B-]] or instr consent;
Instructor: Pankow, James Scott
Description: Grading: 20% mid exam, 20% final exam, 5% reports/papers, 25% special projects, 20% written homework, 10% class participation.

PUBH 6363 Design and Analysis of Group-Randomized Trials in Epidemiology
3 credit(s); prereq 6331, 6451, epidemiology major, instr consent;
Instructor: Oakes, J. Michael
Description: Student may contact the instructor or department for information.

PUBH 6385 Epidemiology and Control of Infectious Diseases
2 credit(s); prereq Epidemiology major or instr consent;
Instructor: Lifson, Alan Raymond
Description: Principles and practice of infectious disease epidemiology, including how communicable diseases and their control affect public health locally, nationally and internationally. Course includes: general methods including outbreak investigation and disease surveillance; major infectious diseases and modes of transmission; and different control strategies, including immunization and screening.
Style: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 60% reports/papers, 15% attendance.

PUBH 6387 Cancer Epidemiology
2 credit(s); prereq [[6320 or 6330 or 6341], [health sciences grad student or professional school student]] or instr consent;
Instructor: Anderson, PhD, Kristin Ellen
Description: Student may contact the instructor or department for information.

PUBH 6414 Biostatistical Methods I
A-F only, 3 credit(s); prereq Public Health [MPH or certificate] student or [environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major or instr consent; Credit will not be granted if credit has been received for: PUBH 6450;
Instructor: Davey, MS, Cynthia S
Description: Student may contact the instructor or department for information.

PUBH 6414 Biostatistical Methods II
A-F only, 3 credit(s); prereq Public Health [MPH or certificate] student or [environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major or instr consent; Credit will not be granted if credit has been received for: PUBH 6450;
Instructor: Brearley, Ann M.
Description: Student may contact the instructor or department for information.

PUBH 6415 Biostatistical Methods II
3 credit(s); prereq [6414, [public health [MPH or certificate] student or environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major] or instr consent;
Instructor: Telke, Susan Elizabe
Description: Student may contact the instructor or department for information.

PUBH 6415 Biostatistical Methods II
3 credit(s); prereq [6414, [public health [MPH or certificate] student or environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major] or instr consent;
Instructor: Telke, Susan Elizabe
Description: Student may contact the instructor or department for information.

PUBH 6450 Biostatistics I
A-F only, 4 credit(s); prereq [College-level algebra, health sciences grad student] or instr consent; Credit will not be granted if credit has been received for: PUBH 6414;
Instructor: Banerjee, Sudipto
Description: Student may contact the instructor or department for information.

PUBH 6451 Biostatistics II
4 credit(s); prereq [[6420, 6450] or [6414, 6415]] with grade of at least B, health sciences grad student] or instr consent;
Instructor: Thomas, William
Description: Student may contact the instructor or department for information.

PUBH 6544 Principles of Problem Solving in Health Services Organizations
A-F only, 3 credit(s); prereq 6541, completed 30 hours of MHA coursework, health care administration student;
Instructor: Potthoff, Sandra Jean
Description: Student may contact the instructor or department for information.

PUBH 6547 Health Care Human Resources Management
A-F only, 2 credit(s); prereq Health care admin student or public health admin student or instr consent;
Instructor: Langan, Patrick J
Description: Student may contact the instructor or department for information.

PUBH 6551 Contemporary Problems in Health Care
1-2 credit(s), max credits 2, 1 repeat allowed; prereq Grad student;
Instructor: Weckwerth, Vernon E
Description: Student may contact the instructor or department for information.

PUBH 6553 Health Care Management Ethics
A-F only, 1 credit(s), max credits 2; prereq Public health MPH or MHA or certificate student or instr consent;
Instructor: Grant, Leslie Alan
Description: Student may contact the instructor or department for information.

PUBH 6554 Health Care Marketing and Strategy
A-F only, 2 credit(s); prereq Management coursework;
Instructor: Hiljestad, Steven G
Description: Student may contact the instructor or department for information.

PUBH 6557 Health Finance I
3 credit(s); prereq [[Health care admin or public health admin/policy major], familiarity with computerized spreadsheets] or instr consent;
Instructor: Sailey, Troy Alan
Description: Student may contact the instructor or department for information.

PUBH 6561 Quantitative Methods Applied to Health Administration Problems
A-F only, 2 credit(s); prereq Health care admin student or instr consent;
Instructor: Weckwerth, Vernon E
Description: Student may contact the instructor or department for information.

PUBH 6569 Healthcare Policy
A-F only, 1 credit(s), max credits 2; prereq Public health MPH or MHA or certificate student] or instr consent;
Instructor: Grant, Leslie Alan
Description: Student may contact the instructor or department for information.
PUBH 6570 Topics: Health Care Administration: Managing Medical Practices
1-4 credit(s), max credits 20, 5 repeats allowed; prereq Health care admin student or instr consent
Instructor: Zismer, Daniel Kevin
Description: Student may contact the instructor or department for information.

PUBH 6570 Topics: Health Care Administration: Leading Performance Improvement in Health Care
1-4 credit(s), max credits 20, 5 repeats allowed; prereq Health care admin student or instr consent
Instructor: Mosser, MD, Gordon
Description: PUBH 6570, section 3, Leading Performance Improvement in Health Care, is a 2-credit elective course for students who intend to lead, design, or staff performance improvement programs in healthcare institutions. The course provides an introduction to concepts of performance improvement, an account of the role of leadership and management in quality improvement programs, a review of quality improvement topics currently widely discussed in the U.S., an overview of quality measurement, and an account of continuous quality improvement compared and contrasted with other approaches to quality improvement. The course emphasizes the conceptual basis of performance improvement and the leadership of performance improvement programs. The tools and techniques of continuous quality improvement are summarized briefly. The course stresses performance improvement in healthcare delivery organizations, especially hospitals and medical groups. However the principles apply also to public health, and examples from public health are included. Students do group projects to learn how performance improvement is put into practice in selected health systems, hospitals, and medical groups in the Twin Cities and nearby.

PUBH 6573 The Nature of Clinical Care
A-F only, 2 credit(s); prereq School of Public Health student
Instructor: Mosser, MD, Gordon
Description: PUBH 6573 The Nature of Clinical Care is an elective course intended to provide an understanding of clinical care for future health care professionals who are not clinicians. The primary aim of the course is to enable administrators in health care delivery or public health to feel comfortable in discussing clinical matters with their clinical colleagues and to participate as peers in managing health care delivery performance in hospitals, medical groups, and other health care delivery and public health institutions. The course is also suitable for future health sciences researchers who do not have clinical backgrounds. The course covers medical terminology, basic human anatomy, common human diseases, the scope of practice for medical and surgical specialties, and common medical and surgical procedures. Readings include a medical terminology textbook and a textbook on human diseases. The early portion of the course is taught as lectures, using written tests on factual material to evaluate learning. The later portion is taught with clinical professionals as guest presenters and discussion leaders. Students do small group projects to study clinical teams and the work that they do.

PUBH 6589 Medical Technology Evaluation and Market Research
2 credit(s);
Instructor: Parente, Stephen T
Description: Student may contact the instructor or department for information.

PUBH 6596 Legal Considerations in Health Services
Organizations
A-F only, 2 credit(s); prereq Health care admin student;
Instructor: Feinwachs, David
Description: Student may contact the instructor or department for information.

PUBH 6605 Reproductive and Perinatal Health
2 credit(s); prereq Public health student or grad student or instr consent
Instructor: Hellerstedt, Wendy L
Description: Student may contact the instructor or department for information.

PUBH 6606 Children's Health: Issues, Programs, and Policies
2 credit(s); prereq Public health student or grad student or instr consent
Instructor: Oberg, MD, Charles N
Description: Student may contact the instructor or department for information.

PUBH 6607 Adolescent Health: Issues, Programs, and Policies
2 credit(s); prereq Public health student or grad student or instr consent
Instructor: Hellerstedt, Wendy L
Description: Student may contact the instructor or department for information.

PUBH 6627 Sexuality Education: Criteria, Curricula, and Controversy
1 credit(s); prereq Prefer public health student or grad student or professional in public health or education;
Instructor: Bret, Lynn Muenzenberger
Description: Student may contact the instructor or department for information.

PUBH 6634 Advocacy and Children's Rights
2 credit(s); prereq Public health student or grad student or instr consent
Instructor: Oberg, MD, Charles N
Description: Student may contact the instructor or department for information.

PUBH 6705 Community Health Assessment
3 credit(s); prereq Public health admin/policy major or instr consent
Instructor: McBain, Alexander Marshall
Description: Student may contact the instructor or department for information.

PUBH 6711 Public Health Law
2 credit(s); prereq Grad student or professional school student or instr consent
Instructor: Barry, Anne M
Description: Student may contact the instructor or department for information.

PUBH 6724 The Health Care System and Public Health
3 credit(s); prereq Public health or grad student or instr consent
Instructor: Blewett, Lynn Ann
Description: Student may contact the instructor or department for information.

PUBH 6727 Health Leadership and Effecting Change
2 credit(s); prereq Public health MPH or MHA or certificate student or [health services research, policy/admin] MS student or instr consent
Instructor: Begun, James Warren
Description: Intended primarily for students who aim to be leaders in healthcare delivery organizations or public health organizations or programs. The purpose of the course is to improve students' abilities to serve as leaders in organizations, especially to lead processes of organizational change. Students will be encouraged to identify their own individual leadership competencies so that they can make best use of them in their
future roles.

**Style:** 25% Lecture, 5% Film/Video, 25% Discussion, 15% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.

**Grading:** 20% reports/papers, 40% reflection paper, 20% in-class presentation, 20% class participation.

PUBH 6741 Ethics in Public Health: Professional Practice and Policy

A-F only, 1 credit(s); prereq Public health [MPH or MHA or certificate] student or environmental health [MS or PhD] major or instr consent ;

**Instructor:** DeBruin PhD,Debra Ann

**Description:** Student may contact the instructor or department for information.

PUBH 6742 Ethics in Public Health: Research and Policy

A-F only, 1 credit(s); prereq Public health [MPH or certificate] student or [clinical research MS or Environmental health [MS or PhD] or epidemiology PhD or [health services research, policy/admin [MS or PhD]] major or instr consent ;

**Instructor:** DeBruin PhD,Debra Ann

**Description:** Student may contact the instructor or department for information.

PUBH 6751 Principles of Management in Health Services Organizations

A-F only, 2 credit(s); prereq [Public health MPH or MHA or certificate] student or [environmental health MS or PhD] student or dentistry MS student or instr consent ;

**Instructor:** Begun,James Warren

**Description:** Equips students with analytical skills to understand organizations and organization behavior. Develops management and leadership competencies that enable students to make a positive difference in their work organizations and in the health of populations.

**Style:** 50% Lecture, 5% Film/Video, 25% Discussion, 20% Small Group Activities.

**Grading:** 30% mid exam, 40% reports/papers, 30% written homework.

PUBH 6758 Managing Public Health Systems

A-F only, 2 credit(s); prereq [6751 or Concurrent registration is required (or allowed) in 6751], [public health [MPH or certificate] student or environmental health [MS or PhD] major or HSRPA [MS or PhD] major];

**Instructor:** Wholey,Douglas R

**Description:** Student may contact the instructor or department for information.

PUBH 6762 Health Finance Applications

2 credit(s); prereq [6558, [grad or professional school] student] or instr consent ;

**Instructor:** Simensen,Kimberly O

**Description:** Student may contact the instructor or department for information.

PUBH 6765 Continuous Quality Improvement: Methods and Techniques

3 credit(s);

**Instructor:** Sainfort,Francois

**Description:** Student may contact the instructor or department for information.

PUBH 6780 Topics: Public Health Administration and Policy:

Health Disparities Capstone Seminar

1 credit(s), max credits 80, 20 repeats allowed;

**Instructor:** Call PhD,Kathleen Thiede

**Description:** Student may contact the instructor or department for information.

PUBH 6803 Conducting a Systematic Literature Review

OPT No Aud, 3 credit(s); prereq Basic knowledge of epidemiology;

**Instructor:** Kane,Robert L

**Description:** Student may contact the instructor or department for information.

**Grading:** 25% reports/papers, 50% special projects, 25% class participation.

PUBH 6809 Advanced Methods in Health Decision Science

OPT No Aud, 3 credit(s); prereq [6717 or intro course in decision analysis], some facility with mathematical notation/reasoning;

**Instructor:** Kuntz,Karen M

**Description:** Student may contact the instructor or department for information.

PUBH 6845 Using Demographic Data for Policy Analysis

A-F only, 3 credit(s); prereq [Grad level research methods course, basic statistics course] or instr consent ;

**Instructor:** Davern,Michael E

**Description:** Student may contact the instructor or department for information.

PUBH 6852 Program Evaluation in Health and Mental Health Settings

2 credit(s);

**Instructor:** Garrard,Judith M

**Description:** Student may contact the instructor or department for information.

PUBH 6855 Medical Sociology

3 credit(s); prereq [[Grad or professional school] student, previous experience with statistical software] or instr consent ;

**Instructor:** McAlpine,Donna D

**Description:** Student may contact the instructor or department for information.

PUBH 6862 Cost-Effectiveness Analysis in Health Care

3 credit(s); prereq instr consent ; introductory econ course recommended;

**Instructor:** Nyman,John A.

**Description:** Student may contact the instructor or department for information.

PUBH 6864 Conducting Health Outcomes Research

3 credit(s); prereq Introductory course in epidemiology or health services research methods or instr consent ;

**Instructor:** Radosevich,David M

**Description:** Student may contact the instructor or department for information.

PUBH 6906 Global Nutrition

2 credit(s); prereq Grad student;

**Instructor:** Himes,John H

**Description:** Student may contact the instructor or department for information.

PUBH 6914 Community Nutrition Intervention

3 credit(s); prereq Public health [MPH or certificate] student or instr consent ;

**Instructor:** Neumark-Sztainer,Dianne Ruth

**Description:** This class provides students with the tools for developing community nutrition interventions. Students will learn about utilizing behavioral theory, conducting needs assessments, writing program objectives, developing intervention strategies, evaluating program implementation and effectiveness, planning a budget, and writing grant proposals. Students pick their projects based on their personal interests and work in small groups. Previous examples include: obesity prevention for school-aged children, eating disorder prevention for adolescent girls; increasing whole-grain consumption in college students, and increasing fruit and vegetable intake in preschoolers.

**Style:** 40% Lecture, 10% Discussion, 20% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.

**Grading:** 25% reports/papers, 50% special projects, 25% class participation.

PUBH 6915 Nutrition Assessment

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
PUBH 6933 Nutrition and Chronic Diseases
2 credit(s); prereq Public health nutrition major or instr consent
Instructor: Robien,Kim
Description: This course covers issues in nutrition and public health, with an emphasis on how nutrition research is translated into dietary recommendations for public health. We will focus on the relation of nutrition to obesity, cardiovascular disease, diabetes, and cancer.
Style: 50% Lecture, 45% Discussion, 5% Student Presentation.
The course is structured as a weekly seminar with about an hour of lecture and an hour of discussion.
Grading: 50% reports/papers, 25% in-class presentation, 25% class participation.
Exam Format: No exams in this graduate level course

PUBH 7094 Master's Project: Community Health Education
1-6 credit(s), max credits 6; prereq CHE major, instr consent
Instructor: Brady,Sonya S.
Description: Student may contact the instructor or department for information.

PUBH 7096 Field Experience: Community Health Education
S-N only, 1-6 credit(s), max credits 6; prereq CHE major, instr consent
Instructor: Hennrikus,Deborah Jane
Description: Student may contact the instructor or department for information.

PUBH 7193 Directed Study: Environmental Health
OPT No Aud, 1-4 credit(s), max credits 20, 20 repeats allowed; prereq instr consent
Instructor: McGovern,Patricia Marie
Description: Student may contact the instructor or department for information.

PUBH 7194 Master's Project: Environmental Health
S-N only, 1-6 credit(s), max credits 5, 5 repeats allowed; prereq Environmental health major, instr consent
Instructor: Wattenberg,Elizabeth Vaughn
Description: Student may contact the instructor or department for information.

PUBH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 repeats allowed; prereq Environmental health major, instr consent
Instructor: Greaves,Ian A
Description: Student may contact the instructor or department for information.

PUBH 7280 Public Health Advocacy Through Professional Organizations
S-N only, 0.5 credit(s), max credits 1; prereq Public health practice MPH major or instr consent
Instructor: Hart MD,James F
Description: Student may contact the instructor or department for information.

PUBH 7280 Public Health Advocacy Through Professional Organizations
S-N only, 0.5 credit(s), max credits 1; prereq Public health practice MPH major or instr consent
Instructor: Hueston DVM,William D.
Description: Student may contact the instructor or department for information.

PUBH 7291 Independent Study: Public Health Practice
OPT No Aud, 0.5-4 credit(s), max credits 20, 20 repeats allowed; prereq Public health practice MPH major, instr consent
Instructor: Hart MD,James F
Description: Student may contact the instructor or department for information.

PUBH 7294 Master's Project: Public Health Practice
S-N only, 0.5-4 credit(s), max credits 12, 3 repeats allowed; prereq Public health practice MPH major, instr consent
Instructor: Hart MD,James F
Description: Student may contact the instructor or department for information.

PUBH 7296 Field Experience: Public Health Practice
S-N only, 0.5-4 credit(s), max credits 12, 4 repeats allowed; prereq Public health practice MPH major, instr consent
Credit will not be granted if credit has been received for: CVM 6516:
Instructor: Hart MD,James F
Description: Student may contact the instructor or department for information.

PUBH 7391 Independent Study: Epidemiology
1-4 credit(s), max credits 4, 4 repeats allowed; prereq [EPI major or grad student], instr consent
Instructor: Lilson,Alan Raymond
Description: Student may contact the instructor or department for information.

PUBH 7392 Readings in Epidemiology
1-4 credit(s), max credits 4, 4 repeats allowed; prereq Epidemiology major, instr consent
Instructor: Ross,Julie A
Description: Student may contact the instructor or department for information.

PUBH 7394 Master's Project: Epidemiology
1-6 credit(s), max credits 6; prereq Epidemiology MPH student, instr consent
Instructor: Lexau,Catherine Anne
Description: Student may contact the instructor or department for information.

PUBH 7396 Field Experience: Epidemiology
S-N only, 1-5 credit(s), max credits 5; prereq Epidemiology major, instr consent
Instructor: Pereira PhD,Mark A
Description: Student may contact the instructor or department for information.

PUBH 7402 Biostatistics Modeling and Methods
4 credit(s); prereq 7401; intended for PhD students in health sciences;
Instructor: Wall,Melanie M
Description: Student may contact the instructor or department for information.

PUBH 7406 Biostatistics: ANOVA and Design
4 credit(s); prereq [7405, [Stat 5102 or Concurrent registration is required (or allowed) in Stat 5102], biostatistics major] or instr consent
Instructor: Bergemann,Tracy L
Description: Student may contact the instructor or department for information.

PUBH 7407 Analysis of Categorical Data
3 credit(s); prereq 7405. [Stat 5102 or Concurrent registration is required (or allowed) in Stat 5102 or Stat 8102 or Concurrent registration is required (or allowed) in Stat 8102];
Instructor: Hanson,Timothy Edward
Description: Student may contact the instructor or department for information.

PUBH 7420 Clinical Trials: Design, Implementation, and Analysis
3 credit(s); prereq 6451 or Concurrent registration is required (or allowed) in 6451 or 7406 or instr consent ;
Instructor: Neaton,Jim
Description: Student may contact the instructor or department for information.

PUBH 7440 Introduction to Bayesian Analysis
3 credit(s); prereq [[7405, 7406] or [Stat 5101, 5102] or equiv], [public health MPH or biostatistics or statistics] grad student or instr consent ;
Instructor: Carlin PhD,Bradley Paige
Description: Student may contact the instructor or department for information.

PUBH 7470 Statistics for Translational and Clinical Research
3 credit(s); prereq [6450, 6451] or equiv], [grad student in biostatistics or statistics or clinical research], familiarity with SAS;
Instructor: Le,Chap T.
Description: Student may contact the instructor or department for information.

PUBH 7494 Master's Project: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent ;
Instructor: Grambsch,Patricia L
Description: Student may contact the instructor or department for information.

PUBH 7494 Master's Project: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent ;
Instructor: Nelson,David Bruce
Description: Student may contact the instructor or department for information.

PUBH 7494 Master's Project: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent ;
Instructor: Wall,Melanie M
Description: Student may contact the instructor or department for information.

PUBH 7494 Master's Project: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent ;
Instructor: Luo,Xianghua
Description: Student may contact the instructor or department for information.

PUBH 7494 Master's Project: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent ;
Instructor: Bergemann,Tracy L
Description: Student may contact the instructor or department for information.

PUBH 7496 Biostatistics: Field Experience
S-N only, 2-6 credit(s), max credits 6, 1 repeat allowed;
prereq Biostatistics MPH student;
Instructor: Reilly,Cavan Sheerin
Description: Student may contact the instructor or department for information.

PUBH 7581 Gerontology and Services for Long Term Care Residents
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.

PUBH 7582 Practicum in Long-Term Care Administration
S-N only, 4 credit(s); prereq [7580, 7581, 7583] or [7587, 7588];
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.

PUBH 7691 Independent Study: Maternal and Child Health
1-4 credit(s), max credits 20, 20 repeats allowed; prereq Maternal/child health major, instr consent ;
Instructor: Obeng MO,Charles N
Description: Student may contact the instructor or department for information.

PUBH 7694 Master’s Project: Maternal and Child Health
S-N only, 2-4 credit(s), max credits 4; prereq Maternal/child health major, instr consent ;
Instructor: Patterson,Joan
Description: Student may contact the instructor or department for information.

PUBH 7696 Field Experience: Maternal and Child Health
S-N only, 1-4 credit(s), max credits 4; prereq Maternal/child health major, instr consent ;
Instructor: Hellerstedt,Wendy L
Description: Student may contact the instructor or department for information.

PUBH 7784 Master’s Project Seminar: Public Health Administration and Policy
A-F only, 1 credit(s), max credits 2; prereq Public health administration/policy major;
Instructor: McAlpine,Donna D
Description: Student may contact the instructor or department for information.

PUBH 7791 Independent Study: Public Health Administration and Policy
1-4 credit(s), max credits 4, 4 repeats allowed; prereq Public health admin/policy major, instr consent ;
Instructor: Nyman,John A.
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Call PhD,Kathleen Thiede
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Feldman,Roger D
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Kuntz,Karen M
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Town,Robert James
Description: Student may contact the instructor or department for information.

PUBH 7894 MS in Health Services Research, Policy & Administration Plan B Project
S-N only, 1 credit(s), max credits 2; prereq [Health Services Research, Policy/Administration] MS student;
Instructor: Grant,Leslie Alan
Description: Student may contact the instructor or department for information.
PUBH 7994 Master's Project: Public Health Nutrition
1-4 credit(s), max credits 4; prereq PubH Nutr major, instr consent;
Instructor: Stang, Jamie S
Description: Student may contact the instructor or department for information.

PUBH 7996 Field Experience: Public Health Nutrition
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq Public health nutrition major, dept consent;
Instructor: Story, Ph.D., Mary T
Description: Student may contact the instructor or department for information.

PUBH 8120 Occupational Injury Prevention Research Training Program Research Seminar
S-N only, 1 credit(s), max credits 12, 12 repeats allowed;
prereq [6120, [6329 or 6431], 6450, environmental health major, [OIPRTP specialty or equiv]] or instr consent;
Instructor: Gerberich, Ph.D., Susan G
Description: Student may contact the instructor or department for information.

PUBH 8141 Doctoral Seminar in Observational Inference
S-N only, 2 credit(s), max credits 20, 10 repeats allowed;
prereq 8140, doctoral student in public health, instr consent;
[6330, 6340] or [6341, 6342] recommended;
Instructor: Church, Timothy Robert
Description: Student may contact the instructor or department for information.

PUBH 8142 Epidemiologic Uncertainty Analysis
S-N only, 2 credit(s); prereq 8140;
Instructor: Maldonado, George
Description: Student may contact the instructor or department for information.

PUBH 8161 Current Literature in Toxicology
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;
prereq 6104;
Instructor: Wattenberg, Elizabeth Vaughn
Description: Style: 50% Discussion, 50% Student Presentation.
Grading: 50% in-class presentation, 50% class participation.

PUBH 8194 Directed Research: Environmental Health
1-6 credit(s), max credits 6, 1 repeat allowed; prereq instr consent;
Instructor: Ramachandran, Gurumurthy
Description: Student may contact the instructor or department for information.

PUBH 8300 Topics: Epidemiology: Advanced Epidemiologic Methods: Applications
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Schreiner, Pamela Jean
Description: Student may contact the instructor or department for information.

PUBH 8377 Seminar: Chronic Disease and Behavioral Epidemiology
S-N only, 1 credit(s), max credits 2; prereq Epi grad major or instr consent;
Instructor: Harlow, Bernard Leslie
Description: This course offers an intimate recapitulation of the weekly seminar of the Division of Epidemiology and Community Health. In the hour immediately following the seminar, the class meets with the seminar presenter and course instructors for an indepth examination of the topic presented. Classroom activities include review and clarification of the seminar material, connection of this material to other areas of epidemiology and public health, and open-ended questions and answers with the students.

PUBH 8393 Directed Study: Clinical Research
1-4 credit(s), max credits 20, 20 repeats allowed; prereq Clinical research major, instr consent;
Instructor: Petryk, Anna
Description: Student may contact the instructor or department for information.

PUBH 8400 Topics: Biostatistics: Advanced Statistical Genetics and Genomics
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Wu, Baolin
Description: Student may contact the instructor or department for information.

PUBH 8442 Bayesian Decision Theory and Data Analysis
3 credit(s); prereq [7460 or experience with FORTRAN or with [C, S+]], Stat 5101, Stat 5102, Stat 8311, grad student in [biostatistics or statistics] or instr consent;
Instructor: Reilly, Cavan Sheerin
Description: Student may contact the instructor or department for information.

PUBH 8452 Advanced Longitudinal Data Analysis
3 credit(s); prereq [Stat 5102, Stat 8311, experience with [SAS or S+], advanced [biostats or stat] student] or instr consent;
Instructor: Guo, Hongfei
Description: Student may contact the instructor or department for information.

PUBH 8462 Advanced Survival Analysis
3 credit(s); prereq [7450, 8432, Stat 5102, advanced [biostatistics or statistics] major] or instr consent;
Instructor: Grambsch, Patricia L
Description: Student may contact the instructor or department for information.

PUBH 8472 Spatial Biostatistics
3 credit(s); prereq [[STAT 5101, STAT 5102] or [STAT 8101, STAT 8102]], some experience with S-plus; STAT 8311 recommended;
Instructor: Banerjee, Sudipto
Description: Student may contact the instructor or department for information.

PUBH 8802 Health Services Policy Analysis: Applications A-F only, 2 credit(s); prereq Hsrp&;a grad major or instr consent;
Instructor: Biewelt, Lynn Ann
Description: Student may contact the instructor or department for information.

PUBH 8803 Long-Term Care: Principles, Programs, and Policies
2 credit(s); prereq Grad-level health-care policy course or instr consent;
Instructor: Kane, Rosalie A
Description: Student may contact the instructor or department for information.

PUBH 8830 Writing for Research
OPT No Aud, 2 credit(s); prereq HSRPA PhD student or instr consent;
Instructor: Kane, Robert L
Description: Student may contact the instructor or department for information.

PUBH 8894 Directed Research: Health Services Research, Policy, and Administration
1-8 credit(s), max credits 8, 8 repeats allowed; prereq HSRPA grad student, instr consent;
Instructor: Wholey, Douglas R
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
RRM 4293 Directed Study
A-F only, 1 credit(s); prereq RRM 4232W, BAS RRM student;
Instructor: STAFF
Description: The student will research a topic of their choice
and present their paper to faculty and students. The student will
be encouraged to submit the paper for publication. This is a
guided independent study project. Faculty will be available to
provide guidance and input into the development of the project.
In cooperation with Mayo School of Health Sciences, Rochester.

RRM 3201 Introduction to Travel and Tourism
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: RRM 3201;
Instructor: Messer, Cynthia Cosdon
Description: Travel and tourism is one of the largest industries
in the world today. In this course, students are introduced to the
nature, structure and complexity of the travel and tourism
industry as they explore its evolution, the types and functions of
the various sectors, the tourism distribution system, the role of
stakeholders and tourist motivations.
Style: 50% Lecture, 25% Discussion, 15% Small Group
Activities, 10% Guest Speakers, guests, inclass activities, videos
Grading: 32% mid exam, 28% final exam, 16% reports/papers,
20% special projects, 4% class participation. 2 exams plus final,
individual case study, group paper with presentation
Exam Format: exams use a combination of formats including
essay, short answer and true/false

REC 1501 Orientation to Leisure and Recreation
3 credit(s);
Instructor: Kang, Hyungkil
Description: Introduction to the history and development of the
parks and recreation movement; sociological, economical,
psychological, and political considerations of leisure and
recreation in contemporary society; interrelationship between
professional and service organizations; orientation to the
professional field.

REC 3551 Administration and Finance of Leisure Services
A-F only, 4 credit(s); prereq [3541W or instr consent], rec
major;
Instructor: Brown, Anthony Kevin
Description: Concepts, principles, and practices of financing
and managing leisure service organizations. Course content will
include organizational behavior and leadership, personnel
management, project management, operations and maintenance
management, financial management, and risk management.

REC 3601W Leisure and Human Development
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Magnuson, Connie
Description: Course Description This course provides students
with opportunities to explore issues associated with the many
oroles of leisure throughout human development. Students will
understand the sequence of human development and the processes
that underlie it through the utilization of the lifespan perspective. The four domains of development-physical, social,
cognitive, and emotional are examined to illustrate an integrative
approach to human development and the role of leisure. This
course will enable students to understand the principles and
procedures for designing programs, services, and facilities
relative to an individual’s values, attitudes, identity, culture, and
gender and their placement in the lifecycle. Students will have
the following competencies upon completion of the course: 1) Understanding of the significance of play, recreation and leisure
throughout the life cycle relative to the individual’s values, attitudes,
values, behaviors and use of resources. (NRPA 8.04) 2) Ability
to promote, advocate, interpret, and articulate the concerns of
leisure service systems for all populations and services. (NRPA

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Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class
Schedule.
8.15) 3) Understanding of human growth and development throughout the life cycle including the contributions of leisure to growth, development, and self-expression. (NRPA 8.18) 4) Ability to utilize effectively the tools of communication, including technical writing, speech, and audio-visual techniques. (NRPA 8.35) 5) Knowledge of principles and procedures for proper social, cultural and environmental design of leisure services, areas, and facilities. (NRPA 8.24) 6) Field experience prior to internship. (NRPA 8.40) Readings Various articles and handouts. There is no assigned textbook. Method of Instruction The class will be presented as a cooperative learning seminar with input and ideas from all members. Participation in class discussions regarding the readings will be required. The instructor will act as a facilitator with mutual exchange and defense of ideas by students. Course Requirements 1) Class Discussion and Participation (20 points) 2) Recreation Observations (3) (15 points) Due April 1st. Students will select three different activities involving three different age groups in the community for observation. 3) Research Paper, 8-10 pages (40 points) Due April 22nd. Students will select an issue in recreation today that is of interest to them. The paper will present the literature and research written regarding their topic and the populations that are involved/affected with by this issue. 4) Group Presentation (25 points) A 30-minute presentation will be given by each group on a specific age group and the role of leisure and recreation for that population. The presentation should be treated as if it were being given at a professional conference. The use of visual aids should be part of the presentation.

REC 3796 Senior Internship in Recreation, Park, and Leisure Studies S-N only, 1-12 credit(s), max credits 15, 1 repeat allowed; prereq Rec sr, instr consent; Instructor: Magnuson,Connie Description: Supervised field experience for pre-professional students in selected agencies.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies 1-9 credit(s), max credits 24, 24 repeats allowed; prereq Rec major, instr consent; Instructor: Magnuson,Connie Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies 1-9 credit(s), max credits 24, 24 repeats allowed; prereq Rec major, instr consent; Instructor: Allison JD,Rayla Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies 1-9 credit(s), max credits 24, 24 repeats allowed; prereq Rec major, instr consent; Instructor: Kane,Mary Jo Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies 1-9 credit(s), max credits 24, 24 repeats allowed; prereq Rec major, instr consent; Instructor: Ross,Stephen D Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies 1-9 credit(s), max credits 24, 24 repeats allowed; prereq Rec major, instr consent; Instructor: Kihl,Lisa A Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5111 Sports Facilities A-F only, 3 credit(s); prereq Kin or Rec major or instr consent; Instructor: Turman PhD,James C Description: An overview of sports facilities including the planning, development, design, funding, financing, and construction of such facilities with emphasis on major indoor multipurpose facilities for recreational sports, physical education, and intercollegiate athletics on the college campus and an introduction to public/private arenas and stadiums. The class will tour selected on-campus kinesiology, athletic, and recreational facilities. Students will be assigned a group sports facilities project and present their concepts and plans to the class. Other topic areas may include, operations management, marketing, advertising, public relations, and risk management. Style: 35% Lecture, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers. Grading: 17% final exam, 35% reports/papers, 25% special projects, 5% quizzes, 13% written homework, 5% attendance. Note: attendance also includes in-class presentation and participation. Exam Format: multiple choice, fill-in, matching, and essay

REC 5161 Recreation Land Policy A-F only, 3 credit(s); prereq 1501 or 5101 or instr consent; Instructor: Magnuson,Connie Description: Course Description: Historical to current development of recreation land policy in the U.S. and related contemporary issues in policy, planning, management, interpretation and research. Course Focus and Objectives: The goal of this course is to introduce students to the broad themes of recreational land policy in the United States. This introduction is provided through detailed examination of selected historical and contemporary policy issues. Policy is viewed as the product of social conflict over the use of public resources. With that in mind, our emphasis is placed on understanding the ideas underlying historical policy decisions and contemporary issues. Upon completion of this course students should be able to: a) identify and explain the significance of the individuals, laws, places, and programs that have shaped recreation land policy in the U.S. especially National Parks, National Forests, state and county parks, etc; b) describe and interpret the factors leading to the establishment of recreation land policy for the National Park Service, the Forest Service, Bureau of Land Management and State and Local Parks; c) identify and analyze major contemporary issues in recreation land policy and management. Course Grading: 1. Class participation ... 2. Discussion papers (2 papers, each worth 15 pts.) 3. Take-home essay exam.... 4. Group presentation and 4-5 page paper... Grading: 20% final exam, 30% reports/papers, 30% in-class presentation, 20% class participation. Exam Format: Take home essay

REC 5301 Wilderness and Adventure Education A-F only, 4 credit(s); Instructor: Walsh,Mike Description: Rationale for, methods in applying wilderness/adventure education programs in education, recreation, corporate, human service settings. Emphasizes adventure/wilderness program management.

REC 5371 Sport and Society A-F only, 3 credit(s); prereq [3126, grad student] or instr consent; Instructor: Kane,Mary Jo Description: Sport, sporting processes, social influences, systems, and structures that have affected and exist within/among societies, nations, and cultures. Issues concerning social differentiation. Social concerns such as violence and honesty.

REC 5461 Foundations of Sport Management A-F only, 3 credit(s); prereq Kin or rec or postbac or grad student or instr consent; Instructor: Esten,Phil L
Description: Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.

REC 5601 Sport Management Ethics and Policy
A-F only, 3 credit(s); prerequisite Grad student or instr consent
Instructor: Kihl, Lisa A
Description: Ethical concepts that underpin or inform sport policies. Evaluating sport policies from a normative point of view. Selected sport policy issues are used to illustrate relevance of ethical considerations in policy development, ethical implications of sport policy.

REC 5631 Programming and Promotion in Sport
A-F only, 3 credit(s); prerequisite Kin or Rec grad student or instr consent
Instructor: Ross, Stephen D
Description: While sport promoters can be traced as far back as early 20th century boxing matches, sport marketing as a concept has just recently been credited with the sudden rise in industrial interest. Although the sport industry is still in its early growth period, it has experienced extreme financial prosperity. Largely responsible for the increased popularity and revenue gain of the field is sport marketing. This course is designed to introduce marketing concepts as they apply to the sport industry. Topics such as consumer behavior, market research, the marketing mix and licensing will be covered through the use of interactive discussion and practical application.

REC 5701 Positive Youth Development Programming
A-F only, 3 credit(s); prerequisite Upper div undergrad or grad student or instr consent
Instructor: Lewis, T. Grant
Description: Positive Youth Development Programming (PYDP) focuses on engaging students to discover, employ, evaluate, and appreciate the processes and procedures inherent in designing, implementing, and evaluating programs for youth within the realm of out-of-school time. The course will place an emphasis on identifying the political, social, and cultural issues that are salient to the profession of youth development, recognizing and analyzing the characteristics and processes of youth who are developing in a positive manner, and a grasp of the process of a preventative, developmental approach to the programming of positive, healthy activities for youth. In addition, the course emphasizes the philosophy and purposes of youth development programs and organizations; principles and procedures for developing, coordinating, and implementing youth development programs; and examining research and practice in youth-at-risk initiatives. Students will be provided with opportunities to demonstrate how youth learn through the use of various youth development concepts and initiatives (i.e.: learning settings, experiential education, prevention education, cooperative learning) by engaging in and designing activities that incorporate these strategies. The course content is interdisciplinary in nature, and is grounded in the tenets of experiential education (per the work of John Dewey). PYDP is intended as preparation for those students preparing to facilitate and work with young people in a variety of settings, including municipal recreation, sport programming, camps, outdoor education, and traditional education. Students enrolled in PYDP will have the opportunity to enhance and enrich their personal and professional development through the exploration of experiential education that targets the psychological, physical and social development of multicultural and multigenerational participants in youth development programs. It is expected that students will have had prior experience working with youth in the capacity of an educator, instructor, leader, guide or mentor. Emphasis will be placed on active learning, discussion, and group work, with service learning and project development the primary sources of assessment.
Style: 10% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 15% Service Learning.
Grading: 20% reports/papers, 35% special projects, 20% reflection paper, 5% in-class presentation, 20% class participation.

REC 5801 Legal Aspects of Sport and Recreation
A-F only, 4 credit(s); prerequisite 3551 or 5461 or instr consent
Instructor: Loher, Vickie Lynn
Description: Legal issues related to recreation, park, and sport programs/facilities with public/private sectors.

REC 5900 Special Topics: Contemporary Issues in Leisure Services: Collegiate Athletic Governance and Regulations
2 credit(s), max credits 12, 12 repeats allowed
Instructor: Fitzgerald, Kevin Michael Patrick
Description: The world of college sports is examined through the perspective of the student-athlete. This course aims to provide an in-depth examination of the contradictory and demanding environment of college athletics and seeks to enhance students' understandings of effectively working with the student-athlete.

REC 5900 Special Topics: Contemporary Issues in Leisure Services: Experiential Youth Leadership and Service Learning
1 credit(s), max credits 12, 12 repeats allowed
Instructor: Bailey, Andrew William
Description: Contemporary issues emphasizing administrative and supervisory functions for recreation and allied professionals; individual offerings, to be determined by faculty, focus on special issues and professional groups.

REC 5981 Research Methodology in Kinesiology, Recreation, and Sport
A-F only, 3 credit(s); prerequisite MEd or grad student or instr consent; Credit will not be granted if credit has been received for: KIN 5981
Instructor: Kihl, Lisa A
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5992 Readings: Recreation
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite REC major, instr consent
Instructor: Buysse, Jo Ann
Description: Readings on Globalization theory, Italian language and culture. This course is offered as a preparation for the May Session Global Sport course in May. Only students who are taking the May Session Learning Abroad course may sign up for this readings course.
Style: 20% Lecture, 60% Discussion, 20% Small Group Activities. Class meetings once a week for 75 minutes

REC 5992 Readings: Recreation
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite REC major, instr consent
Instructor: Magnuson, Connie
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5992 Readings: Recreation
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite REC major, instr consent
Instructor: Allison JD, Rayla
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5992 Readings: Recreation
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite REC major, instr consent
Instructor: Kane, Mary Jo
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5992 Readings: Recreation
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite REC major, instr consent
Instructor: Allison JD, Rayla
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.
REC 5992 Readings: Recreation
1-3 credit(s), max credits 9, 9 repeats allowed; prereq REC major, instr consent
Instructor: Kihl, Lisa A
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5995 Problems in Recreation, Park, and Leisure Studies
1-12 credit(s), max credits 30, 30 repeats allowed; prereq [MEd or grad student], instr consent
Instructor: Magnuson, Connie
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
1-12 credit(s), max credits 30, 30 repeats allowed; prereq [MEd or grad student], instr consent
Instructor: Allison JD, Rayla
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
1-12 credit(s), max credits 30, 30 repeats allowed; prereq [MEd or grad student], instr consent
Instructor: Kane, Mary Jo
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5995 Problems in Recreation, Park, and Leisure Studies
1-12 credit(s), max credits 30, 30 repeats allowed; prereq [MEd or grad student], instr consent
Instructor: Kihl, Lisa A
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 36, 12 repeats allowed; prereq [Rec MEd or grad student], instr consent
Instructor: Ross, Stephen D
Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 36, 12 repeats allowed; prereq [Rec MEd or grad student], instr consent
Instructor: Kane, Mary Jo
Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 36, 12 repeats allowed; prereq [Rec MEd or grad student], instr consent
Instructor: Kihl, Lisa A
Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 3-9 credit(s), max credits 36, 12 repeats allowed; prereq [Rec MEd or grad student], instr consent
Instructor: Kane, Mary Jo
Description: Individual scholarly research.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 1-4 credit(s), max credits 16, 16 repeats allowed; prereq instr consent
Instructor: Ross, Stephen D
Description: Individual scholarly research.

REC 6796 Practicum in Recreation, Park, and Leisure Studies
S-N only, 1-4 credit(s), max credits 16, 16 repeats allowed; prereq instr consent
Instructor: Kihl, Lisa A
Description: Individual scholarly research.

REHABILITATION SCIENCE
382 Children’s Rehabilitation Center (Box 388 UMHC)

RSC 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval
Instructor: Patterson, Robert Patrick
Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval
Instructor: Carey, James Robert
Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval
Instructor: Mathiowetz, PhD, Virgil G
Description: Student may contact the instructor or department for information.

RSC 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval
Instructor: Kimberley, PT, PhD, Teresa Jacobson
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tr>
<td>RSC 5294</td>
<td>Independent Study in Rehabilitation Science</td>
<td>1-3</td>
<td>A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval</td>
<td>Di Fabio, Richard P</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
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<td>RSC 8170</td>
<td>Special Topics in Rehabilitation Science</td>
<td>A-F</td>
<td>1 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval, instr consent</td>
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<td>Stern PhD, Erica Beth</td>
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<td>Special Topics in Rehabilitation Science</td>
<td>A-F</td>
<td>1 credit(s), max credits 3, 3 repeats allowed; prereq Rehabilitation science student or program approval, instr consent</td>
<td>Thompson PhD, LaDora V</td>
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<td>Lowe, Dawn Annette</td>
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<td>Thompson PhD, LaDora V</td>
<td>Description: Student may contact the instructor or department for information.</td>
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### RSC 8185 Problems in Rehabilitation Science

1-3 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent;  
Instructor: Care, James Robert  
Description: Student may contact the instructor or department for information.

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<td>Care, James Robert</td>
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### RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 repeat allowed; prereq [Rehabilitation science student or program permission], instr consent;  
Instructor: Carey, James Robert  
Description: Student may contact the instructor or department for information.

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<td>Carey, James Robert</td>
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### RSC 8185 Problems in Rehabilitation Science

1-3 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent;  
Instructor: Mathiowetz, Virgil G  
Description: Student may contact the instructor or department for information.

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### RSC 8185 Problems in Rehabilitation Science

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Instructor: Thompson, LaDora V  
Description: Student may contact the instructor or department for information.

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### RSC 8185 Problems in Rehabilitation Science

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Instructor: Lowe, Dawn Annette  
Description: Student may contact the instructor or department for information.

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### RSC 8185 Problems in Rehabilitation Science

1-3 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent;  
Instructor: Kukulka, Carl G  
Description: Student may contact the instructor or department for information.

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<td>Kukulka, Carl G</td>
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### RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 repeat allowed; prereq [Rehabilitation science student or program permission], instr consent;  
Instructor: Ludewig, Paula M  
Description: Student may contact the instructor or department for information.

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### RSC 8188 Teaching Practicum

A-F only, 1-5 credit(s), max credits 5, 1 repeat allowed; prereq [Rehabilitation science student or program permission], instr consent;  
Instructor: Nuckley, David J  
Description: Student may contact the instructor or department for information.

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</table>
RELS 1001 Introduction to the Religions of the World
3 credit(s); prereq credit will not be granted if credit already received for: RELA 1001; Meets CLE req of International Perspect Theme;
Instructor: Laine, James
Description: Since the nineteenth century, scholars have studied the major religions of the world in a comparative way. It is not always clear just what the definition of “religion” is, but it is clear that most people in most times and places have been religious: they think about divine beings, the ultimate purpose of human life and the mystery of being and death. Religious commitments can be a set of taken-for-granted assumptions, or clearly articulated ideological stances about what human beings should do and believe. We will look at both aspects of religion. We cannot hope to cover all religious traditions nor even cover a few in any great depth. The course intended as a reflection on aspects of religion as found in religious traditions of South Asia (India), East Asia (China, Japan), and the West (Judaism, Christianity and Islam). While not neglecting the classical texts, we will use films and a field report as ways of confronting the contemporary practices of religious people today.

RELS 1003 World of the Bible: Religions, Empires, and Discourses of Power
3 credit(s); prereq credit will not be granted if credit already received for: RELA 1001; Meets CLE req of Historical Perspective Core;
Instructor: Roetzel, Calvin J
Description: In no hothouse environment did the Bible take shape but in the rough and tumble of clashing empires and civilizations over more than a millennium. This course will explore the engagement of ancient Israel and early Christianity with those religions and empires, some friendly and some hostile, from the third millennium to the end of the first century C.E. It will study descriptively the tensions with and attractions to dominant cultures in the biblical world as diverse as the Sumerian and the Roman and as threatening and alluring as the Canaanite and Hellenistic. The course will investigate how various biblical writers adopted and reshaped their myths, legends, sagas, rituals, laws, wisdom writings, biographies, and political ideologies to speak to their own time, to maintain their identity, and to fashion them into texts of consolation and hope in times of terror. The first ten weeks will deal with the context of the Hebrew Bible; the second five will focus on the New Testament and its world.

RELS 3073 Roman Religion and Early Christianity
3 credit(s); prereq credit will not be granted if credit already received for: RELA 3073; Meets CLE req of Other Humanities Core;
Instructor: Schroeter, Daniel J
Description: The Jewish Diaspora that emerged in late antiquity and the early Middle Ages was remarkably diverse, while at the same time Jews shared common religious and cultural traditions. This course explores how Jews were shaped by the societies and cultures of the Islamic Mediterranean World and Christian Europe from 700 to 1700, while maintaining a distinctive identity. Under the dominant religions of Islam and Christianity, Jews developed autonomous religious and cultural institutions and communities, which frequently changed as Jews were influenced by and adapted to their cultural surroundings and changing historical circumstances. The relationship between diverse Jewish communities throughout the Muslim Mediterranean and Christian Europe is explored. The connections between communities were created and maintained through trade, travel, and the exchange of rabbinical culture and Jewish religious authority across political boundaries. While Jewish status differed under Muslim and Christian rule, this course explores how the experience of Jews was influenced by changing local circumstances, migrations, expulsions, violence, persecution, and resettlement in new locations with the expansion of trade routes and political change in both the Islamic and Christian worlds.

Style: 80% Lecture, 20% Discussion.
Grading: 20% mid exam, 35% final exam, 30% reports/papers, 15% class participation.

RELS 3321 American Indian Philosophies
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Ghebregzi, Alex Anthony
Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people’s resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.

Style: 60% Lecture, 20% Discussion. Group work
Grading: 33% mid exam, 33% final exam, 17% reports/papers, 17% class participation.
Exam Format: The exams will be a take home essay.

RELS 3415W Art of India
3 credit(s); Credit will not be granted if credit has been received for: ALL 3672; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Junghare, Indira Y
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
4 credit(s); Credit will not be granted if credit has been received for: ARTH 3014W; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Asher,Frederick M Description: Student may contact the instructor or department for information.

RELS 3521W History of the Holocaust
3 credit(s); Credit will not be granted if credit has been received for: HIST 3727W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; Instructor: Meng,Michael L Description: Before the outbreak of World War II in 1939, the Jewish population of Europe was the largest in the world with over nine million Jews. In the span of a mere few years, it became one of the smallest in the wake of a massive genocide of European Jewry. By 1945, the Nazis had murdered nearly two out of every three Jews in Europe. This course seeks to deal with questions that, some sixty years after what is now known as the Holocaust, still continue to perplex: Why did the genocide happen in Europe and between the years 1941-1945? Why did Germany, a country that at 1900 stood at the height of cultural, economic, and political power, only three decades later turn into a catastrophic dictatorship of racism, war, and mass murder? Why did the Nazis see Jews as the supreme racial enemy, while also targeting Poles, Ukrainians, Soviets, homosexuals, the Roma, and the disabled? How did non-Jews living in the Nazi occupied areas of Europe react to the mass murder that was unfolding before their eyes? What were the various responses of the victims to their fate? What was everyday life like in the ghettos and the death camps? How were some Jews able to survive the genocide? This course will discuss these central questions from the perspective of Europe as a whole, but special emphasis will be given to the countries of Germany and Poland. Germany is a natural choice as the country that designed, implemented, and carried out the ?Final Solution,? and Poland is selected because it became the geographic epicenter of where the Holocaust took place after the Nazi invasion and occupation of the country in 1939. Style: 60% Lecture, 40% Discussion.

RELS 3611 Eastern Orthodoxy: History and Culture
3 credit(s); Instructor: Stavrou,Theofanis G Description: Student may contact the instructor or department for information.

RELS 3621 The Christian Right and Left in America: Protestant Liberals, Evangelicals, and Fundamentalists
3 credit(s); Credit will not be granted if credit has been received for: RELS 5621; Instructor: Kilde,Jeannie Halgren Description: Does the disarray of the conservative Republican base during this election herald the demise of the Christian Right? How does the prophetic rhetoric of Obama's former pastor Jeremiah Wright at Trinity United Church of Christ fit into liberal Protestant theologies? What can we except from Christian activists in the future? This course will trace the roots of evangelicalism, fundamentalism, and liberal Protestantism in 19th and 20th century religious thought, explore the range of religious ideas and practices embraced by these groups, and examine some critical public policy issues that unite conservative religious. The course is organized into four distinct but overlapping thematic units, which will be examined consecutively: 1) Cultural and theological roots of the Protestant left and right, 2) View of Science across Protestant Christians, 3) Views of History among Protestant Christians, and 4) Faith Experiences of the Christian Left and Right. Style: 60% Lecture, 10% Film/Video, 30% Discussion.

RELS 3714 Islam in the West
3 credit(s); Credit will not be granted if credit has been received for: CAS 3533; Instructor: Bashir,Iraq Description: How do historical trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety, and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation. Grading: 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

RELS 3715 History of the Crusades
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Madden,Mollie M Description: Student may contact the instructor or department for information.

RELS 5070 Topics in Religious Studies: Christians, Muslims, and Jews in Medieval/Early Pe
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent ; Instructor: Lower,Michael T Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfait contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disruption. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity. Style: 100% Discussion. Grading: 50% reports/papers, 50% class participation.

RELS 5070 Topics in Religious Studies: Music & Religious Experience in the Contemp World
3 credit(s), max credits 18, 6 repeats allowed; prereq instr consent ; Instructor: Schultz,Anna Christine Description: This course explores the central role of music in the performance and experience of religion, positioning music not as an adjunct to silent rituals and liturgy, but as the catalyst and carrier of religious experience, indeed as religious experience itself. Music can render spaces sacred, induce trance and possession, serve as sacred language, and unify communities of worshippers. As we listen to diverse religious music and read works by ethnomusicologists, historical musicologists, anthropologists, and scholars of religion, some of the questions we will discuss include: What musical properties engender ecstatic experience? How do religious communities organize themselves? In what ways do devotional experiences linger outside of ritual contexts? How is religious music changing and how does it intersect with issues of politics and identity? How have scholars conceptualized the role of sound in worship? Following a brief review of key concepts in religious studies and the anthropology of religion, we will interrogate music at the intersections of ?world religion? and ?indigenous religion? (while questioning neat distinctions between the two). We will then address issues of particular interest to ethno/musiciologists of religion, including trance, shamanism, identity, and hynmody, grounding our theoretical discussions in article-length case studies.
This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2009.
RUSS 1101 Beginning Russian I
5 credit(s);
Instructor: STAFF
Description: The beginning Russian course develops the four basic language skills—speaking, understanding, reading, and writing—in a balanced, highly integrated manner. Students do regularly assigned grammar exercises, listen to CDs, and are required to participate in each class section. Active control of Russian structure is the principal criterion of evaluation.
Style: 30% Lecture. instructor guided oral exercises
Grading: 25% final exam, 70% quizzes, 5% other evaluation.
oral exam
Exam Format: fill in, translation to Russian, open-ended response

RUSS 1102 Beginning Russian II
5 credit(s); prereq 1101 or equiv;
Instructor: STAFF
Description: The beginning Russian course develops the four basic language skills - speaking, understanding, reading, and writing--in a balanced, highly integrated manner. Students do regularly assigned grammar exercises, listen to tapes, and are required to participate in each class session. Active control of Russian structure is the principal criterion of evaluation.
Style: 30% Lecture. instructor guided oral exercises
Grading: 40% final exam, 40% quizzes, 10% class participation, 10% other evaluation. Homework.
Exam Format: Fill in blanks, translation, writing short paragraphs, answering questions, listening comprehension.

RUSS 3002 Intermediate Russian II
5 credit(s); prereq 3001 or instr consent;
Instructor: STAFF
Description: Textbook: "Nachalo" We are continuing the simultaneous development of speaking, listening, reading and writing skills. The course is designed to prepare students for the language proficiency exam (LPE) in Russian. We will continue on conversation based on the material in text, have translation exercises, group activities, guided exercises to reinforce the grammar and vocabulary. There will be a quiz after each chapter, and a short quiz after the first 2 parts of the chapter (this will help you to better solidify the learned material). We will also be reading some short stories, will answer questions, and will discuss them in class. You will write a short essay on each story.
Style: 20% Lecture. 50% Discussion. guided exercises, interaction, conversation
Grading: 40% final exam, 40% quizzes, 10% class participation, 10% other evaluation. homework

RUSS 3102 Advanced Russian II
4 credit(s); prereq 3101 or instr consent;
Instructor: STAFF
Description: Text: "V Puti - Russian Grammar in Context". Attention will be given to developing reading comprehension, conversational competence, grammatical accuracy, and cultural sophistication. We'll discuss grammar and word study. We will read stories and other texts, and will paraphrase them, answer the questions and carry on discussions in class. You will write essays on the material we have read. Regular attendance is very important for your progress. Class participation and homework constitutes 20% of your grade. If you miss a class, it is your responsibility to find out what was covered, whether any changes were announced, etc. You can make up for a test, if you missed it due to illness or emergency. You are encouraged to take advantage of the instructor's office hours to discuss the material or any problems. During this semester each student will give a 10 minute informative oral presentation on an important or interesting event which happened around the world during the last week. The purpose is to give you an opportunity to do some individual research, be creative and to practice your oral speech. There will be 3 compositions, 3 double-spaced pages each. Correct grammar, spelling, sentence structure, content (clear, logical thought). There will be a quiz after each chapter and a final written exam.
Style: 20% Lecture, 20% Discussion. Russian language interaction
Grading: 25% mid exam, 30% final exam, 10% reports/papers, 20% quizzes, 10% in-class presentation, 10% class participation.
1 oral report
Exam Format: fill in the blank, short essay, translation, answering questions.

RUSS 3311 Russian Major Project
A-F only, 3 credit(s); prereq Russ 3311, Russ maj, instr consent;
Instructor: STAFF
Description: This 3-credit course is designed for and required of all students majoring in Russian, except for Honors students (see Russ 3312). It consists of writing a research paper of no less than 20 typed double-spaced pages, under the guidance of two faculty members in the Russian program. Topics are chosen by students in consultation with their faculty advisors. Students have scheduled individual meetings with the advisors. The Director of Undergraduate Studies coordinates all projects, and students should consult her/him before signing up for the course. Projects should show evidence of original thinking, the ability to use secondary sources (critical and scholarly literature) appropriately, and the ability to analyze and present arguments effectively. Unacceptable projects include book reports, plot summaries, or translations. The project should be linked to the student's course work within the Russian major. i.e. the student should have some academic background in a particular area before undertaking to write a paper in that area. The language of the paper should be in English. The paper should, however, present evidence of appropriate use of Russian-language sources.

RUSS 3311H Honors Major Project in Russian
A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed; prereq credit will not be granted, if credit has been received for Russ 3311, Russ 3312; Russ maj, instr consent;
Instructor: STAFF
Description: This course is designed for and required of all Honors students majoring in Russian. It consists of writing a research paper of no less than 35 typed double-spaced pages, under the guidance of two faculty members in the Russian program. Candidates for summa cum laude need three faculty readers, one of who should be outside the Russian department.
RUSS 3407 Stories and Plays of Anton Chekhov in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 5407; Instructor: Polakiewicz, Leonard Anthony
Description: This course is devoted to the study of literary devices, ideas and themes in 23 stories and 4 major plays by Anton Chekhov—one of the world's greatest modern writers. Although the intrinsic approach is used in analyzing Chekhov's works which focuses mainly on their aesthetic merits, the role of extrinsic factors such as biography, psychology, history, etc., is also studied. This course should be an enriching experience for all students and especially those interested in world literature and drama. Russian and East-Central European Studies, English and Theatre Arts.
Style: 25% Discussion, guided research
Grading: 100% other evaluation. finished research paper
Exam Format: essay

RUSS 3411 Dostoevsky in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 5411; Instructor: Jahn, Gary R
Description: This course provides a survey of the literary career of Fyodor Mikhailovich Dostoevsky (1821-1881), one of the greatest of the nineteenth-century Russian writers. A portion of the course will be devoted to lectures concerning Dostoevsky's biography and literary career. Most of the course, however, will be devoted to the detailed discussion of the required readings. These will include Poor Folk, Notes from Underground, Crime and Punishment, The Possessed, and The Brothers Karamazov. There will be two examinations (mid-term and final) of the essay type. Students enrolled for Russ 3411 must write a 12-15 page research paper on a subject mutually agreed to by themselves and the instructor; students enrolled in Russ 3411 are not obliged to write such a paper.
Style: 20% Lecture, 80% Discussion.
Grading: 25% mid exam, 50% final exam, 25% class participation.
Exam Format: essay

RUSS 3422 Literature: Tolstoy to the Present in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 5422; Meets CLE req of Literature Core; Instructor: Walter, Ronald F.
Description: The course is divided into two halves: during the first half (before spring break) we will read selected short works, mostly stories, of Tolstoy and Chekhov. After spring break and till the end of the semester we will read three novels: Solzhenitsyn's Cancer Ward, Bulgakov's Master and Margarita, and Pasternak's Doctor Zhivago. The course as a whole may be seen as an exploration of the organic literary worldviews, the "gospels," so to speak, of each author, to wit, Tolstoy: the immediate awareness of death releases consciousness; Chekhov: humankind is made of one substance; Solzhenitsyn: male liberation is found in transcending the feminine principle; Bulgakov: putative evil unwittingly performs good; and Pasternak: Truth is found in the individuality conferred by Christian freedom. There will be take-home essays to write for both the mid-term and the final exams. The workload consists of about six hours of reading for each Tuesday evening session. A course paper is optional.

RUSS 3993 Directed Studies
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instr consent, dept consent, college consent; Instructor: STAFF
Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to undergraduate students wishing to explore specialized topics not covered in regular course offerings. The number of faculty in the Russian program being small, no more than 3-5 students per year can be thus accommodated; preference is given to students in the final year of completing their Russian major. The content and procedures of this course vary widely, depending upon agreement between student and instructor, and the number of credits for which the course is taken. Students must consult the Director of Undergraduate Studies in the Russian unit before registering for this course.

RUSS 4102 Beginning Russian II
3 credit(s); prereq 4101, [fourth sem course in another language or grad student]; Instructor: Schweikert, Maria S
Description: Student may contact the instructor or department for information.

RUSS 4102 Beginning Russian II
3 credit(s); prereq 4101, [fourth sem course in another language or grad student]; Instructor: Walter, Ronald F.
Description: Student may contact the instructor or department for information.

RUSS 4104 Intermediate Russian II
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Instructor: Schweikert, Maria S
Description: Student may contact the instructor or department for information.

RUSS 4104 Intermediate Russian II
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Instructor: Walter, Ronald F.
Description: Student may contact the instructor or department for information.

RUSS 5407 Stories and Plays of Anton Chekhov in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 3407; Instructor: Polakiewicz, Leonard Anthony
Description: This course is devoted to the study of literary devices, ideas and themes in 23 stories and 4 major plays by Anton Chekhov—one of the world's greatest modern writers. Although the intrinsic approach is used in analyzing Chekhov's works which focuses mainly on their aesthetic merits, the role of extrinsic factors such as biography, psychology, history, etc., is also studied. This course should be an enriching experience for all students and especially those interested in world literature and drama. Russian and East-Central European Studies, English and Theatre Arts.
Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% class participation.
Exam Format: Essay
3 credit(s); Credit will not be granted if credit has been received for: RUSS 3411;
Instructor: Jahn,Gary R
Description: This course provides a survey of the literary career of Fyodor Mikhailovich Dostoevsky (1821-1881), one of the greatest of the nineteenth-century Russian writers. A portion of the course will be devoted to lectures concerning Dostoevsky's biography and literary career. Most of the course, however, will be devoted to the detailed discussion of the required readings. These will include Poor Folk, Notes from Underground, Crime and Punishment, The Possessed, and The Brothers Karamazov. There will be two examinations (mid-term and final) of the essay type. Students enrolled for Russ 5411 must write a 12-15 page research paper on a subject mutually agreed to by themselves and the instructor; students enrolled in Russ 3411 are not obliged to write such a paper.
Style: 20% Lecture, 80% Discussion.
Grading: 25% mid exam, 50% final exam, 25% class participation.

RUSS 5422 Literature: Tolstoy to the Present in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 3422;
Instructor: Walter,Ronald F.
Description: The course is divided into two halves: during the first half (before spring break) we will read selected short works, mostly stories, of Tolstoy and Chekhov. After spring break and till the end of the semester we will read three novels: Solzhenitsyn's Cancer Ward, Bulgakov's The Master and Margarita, and Pasternak's Doctor Zhivago. The course as a whole may be seen as an exploration of the organic literary worldview, the "gospels," so to speak, of each author, to wit, Tolstoy: the immediate awareness of death releases consciousness; Chekhov: humankind is made of one substance; Solzhenitsyn: male liberation is found in transcending the feminine principle; Bulgakov: putative evil unwittingly performs good; and Pasternak: Truth is found in the indviduation conferred by Christian freedom. There will be take-home essays to write for both the mid-term and the final exams. The workload consists mostly of about six hours of reading for each Tuesday evening session. A course paper is required.

RUSS 5993 Directed Studies
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to advanced undergraduate and graduate students wishing to explore specialized topics not covered in regular course offerings. The number of faculty in the Russian program being small, no more than 3-5 students per year can be thus accommodated, preference is given to students in their final year of the Russian major and to graduate students in Russian Area Studies. The content and procedures of this course vary widely, depending upon agreement between student and instructor, and the number of credits for which the course is taken. Students must consult the Director of Undergraduate Studies in the Russian unit before registering for this course.
Style: guided research and discussion.
Grading: 100% other evaluation, student's work evaluated on the basis of variable course criteria.

Sanskrit
453 Folwell Hall

SKT 5002 Beginning Sanskrit
4 credit(s); prereq 5001 or equiv;
Instructor: Knutson,Jesse Ross
Description: The course continues the introduction to the Sanskrit language, focusing on mastery of the grammar as well as development of basic reading skills.

Scandinavian
205 Folwell Hall

SCAN 3501W Scandinavian Culture Past and Present
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Vestergaard,Nils Soren Martin
Description: Scandinavian Culture Past and Present Scan 3501W S?ren Riis TTh, 2-30-3-45 Spring 2009 3 credits
Description: This writing intensive course introduces undergraduate students to cultural, social, and political developments in Scandinavia past and present. It outlines the area's most distinctive physical and historical features, circumscribes some of its principal views and core values, investigates a selection of its major cultural and political figures, and discusses the popular mentality in the Nordic countries, also known as "Norden". Its principal objective is Scandinavia/Norden as a cultural construct. The course will also give an impression of Scandinavian teaching-style: Prepare for group-work, student-presentations and discussions; and prepare for a high demand for active participation. Besides readings of primary and secondary materials, the syllabus includes documentary and feature films (on video). Relevant www-sites will be visited for current information. All texts are in English and all films are with English subtitles.

SCAN 3601 Great Literary Works of Scandinavia
3 credit(s); Meets CLE req of Literature Core;
Instructor: Zagar,Monika
Description: The course examines major works of Scandinavian literature from the Middle Ages to the present. It will be divided in three sections: First we'll discuss an Icelandic saga from the 13th century, Norwegian folk tales and tales by Hans Christian Andersen, one play by Henrik Ibsen (The Ghosts) a semi-autobiographical novel by Amalie Skram (Under Observation), and a novel by Knut Hamsun (Hunger). We'll proceed by discussing excerpts from a novel by Martin Andersen Nex? (Pelle Erobreren), Ingmar Bergman's autobiography (Laterna Magica), short stories by Svava Jakobsdottir, and poems by Rolf Jacobsen. Our last section will first focus on Peter H??g's novel Smilla's Sense of Snow, Laila Stien's novel Antiphony, Arnaldur Indridason's crime fiction Jar City and conclude with Per Petterson's novel Out Stealing Horses. Danish, Norwegian, Swedish, Finland-Swedish, and Icelandic literature are represented almost equally, and while the emphasis is on literature after the modern breakthrough, the historical dimension will not be neglected. All texts will be discussed in their social, cultural, and artistic context. Throughout the course the discussions will revolve not only around narrative techniques and the individual creative voices but also around establishment of criteria that elevate selected texts into masterpieces. In other words, during the course we will explore what makes the great Scandinavian classics. This is an undergraduate course, for both non-majors and majors. All texts are in English. Class Time: 30% lecture, 40% discussion and group work, 10% presentations, 20% videos. Work Load: 75 pages reading per week, 10 pages writing per term: 1 response paper (3-3pp) one final paper, 8-9pp, (1 midterm) exam. Grade: 30% midterm exam, 40% papers, 10% presentation, 20% class participation. Students are expected to carefully read all assigned readings in advance and actively engage in class discussions. Scandinavian majors will read some assignments in a Scandinavian language. Exam Format: short essay questions.
Style: 30% Lecture, 20% Film/Video, 40% Discussion, 10% Student Presentation, group work, presentations, videos; Note: This is an undergraduate course, for both non-majors and majors. All texts are in English.
Grading: 30% mid exam, 40% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: essay.

SCAN 3993 Directed Studies
1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr
consent, dept consent, college consent;
Instructor: STAFF
Description: Guided, individual reading or study. The student approaches an appropriate professor with a topic of interest, and
if the professor has time and is willing to guide the student, the
student, along with the professor, fills out a form which is
available in the department office (205 Folwell). On this form,
they specify the topic, reading and study materials, and form of
evaluation.

SCAN 5501 Scandinavian Mythology
3 credit(s);
Instructor: Grimstad,Kaaren E
Description: Study of Scandinavian mythology based on
primary sources represented by Saxo Grammaticus, Snorri
Sturluson's Edda and Ynglinga Saga, and the Poetic Edda.
Myths are analyzed using contemporary critical approaches.
All readings in translation. The target audience is advanced
undergraduates and graduates, both majors and non-majors.
Style: 50% Lecture, 50% Discussion.
Grading: 75% reports/papers, 25% class participation.

SCAN 5570 Topics in Scandinavian Studies
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Zagar,Monika
Description: The course examines major works of Scandinavian
literature from the Middle Ages to the present. It will be divided in
three sections: First we'll discuss an Icelandic saga from the
13th century, Norwegian folk tales and tales by Hans Christian
Andersen, one play by Henrik Ibsen (The Ghosts) a semi-autobiographical novel by Amalie Skram (Under Observation), and a novel by Knut Hamsun (Hunger). We'll proceed by discussing excerpts from a novel by Martin Andersen Nex? (Pelle Erobrener). Ingmar Bergman's autobiography (Laterna Magica), short stories by Svava Jakobsdottir, and
goems by Rolf Jacobsen. Our last section will first focus on Peter
H??g's novel Smilla's Sense of Snow, Laila Stien's novel
Antiphony, Arnaldur Indridason's crime fiction Jar City and
conclude with Per Petterson's novel Out Stealing Horses.
Danish, Norwegian, Swedish, Finland-Swedish, and Icelandic
literature are represented almost equally, and while the
emphasis is on literature after the modern breakthrough, the
historical dimension will not be neglected. All texts will be
discussed in their social, cultural, and artistic context.
Throughout the course the discussions will revolve not only
around narrative techniques and the individual creative voices
but also around establishment of criteria that elevate selected
texts into masterpieces. In other words, during the course we will
explore what makes the great Scandinavian classics. This is an
undergraduate course, for both non-majors and majors. All texts are
in English. Class Time: 30% lecture, 40% discussion and
group work, 10% presentations, 20% videos. Work Load: 75
pages reading per week, 10 pages writing per term: 1 response
paper (2-3pp) one final paper, 8-9pp, 1 (midterm) exam. Grade:
30% midterm exam, 40% papers, 15% presentation, 20% class participation. Students are expected to carefully read all
assigned readings in advance and actively engage in class
discussions. Scandinavian majors will read some assignments in
Style: 30% Lecture, 20% Film/Video, 40% Discussion, 10%
Student Presentation, group work, presentations, videos; Note:
This is an undergraduate course, for both non-majors and
majors. All texts are in English.
Grading: 30% mid exam, 40% reports/papers, 10% in-class
presentation, 20% class participation.
Exam Format: essay

SCAN 5710 Topics in Old Norse Literature
3 credit(s), max credits 9, 3 repeats allowed; prereq 5701 or
equiv;
Instructor: Grimstad,Kaaren E
Description: The course will focus on reading and analysis of
Hrafnkel's saga in the textbook by Gordon. Class discussion will be
divided according to topics.
Style: 75% Discussion, 25% Small Group Activities.
Grading: 60% reports/papers, 20% in-class presentation, 20%
class participation.

SCAN 5993 Directed Studies
1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr
consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student
approaches an appropriate professor with a topic of interest, and
if the professor has time and is willing to guide the student, the
student, along with the professor, fills out a form which is
available in the department office (205 Folwell). On this form,
they specify the topic, reading and study materials, and form of
evaluation.

Social Work
105 Peters Hall

SW 1001 Introduction to the World of Social Work: A Global Perspective
3 credit(s);
Instructor: Knust,Diane M
Description: Social Work has a rich history that provides a
foundation for its development as a profession concerned about
people and their social environment. Early social work was and
continues to be driven by a passion to create a just society
throughout the world. The course includes an intentional focus
on international policies, immigrant populations, human rights,
trauma intervention, because they all impact the human
experience in the U.S. more than ever before. The Code of
Ethics of the National Association of Social Work states: ?The
mission of the social work profession is rooted in a set of core
values. These core values, embraced by social workers
throughout the profession's history, are the foundation of social
work's unique purpose and perspective? These core values are:
- service, social justice, dignity and worth of the person,
- importance of human relationships, integrity and competence.

SW 1501 Introduction to Peace Studies
A-F only, 3 credit(s);
Instructor: Menanteau,Dario
Description: This course provides an introduction to peace studies? an interdisciplinary field that considers questions such

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as: how can human conflicts be resolved in ways that promote justice and peace? We will explore definitions, conditions, and causes of violence, nonviolence, war, and peace? be it between nations, groups or individuals. In this work, we will study distinctions between the concepts of negative peace, or the absence of war, and positive peace, understood as the presence of values and practices which promote justice and well-being within a society (such as economic and social justice and environmental stewardship). The class will also distinguish between overt forms of violence (be it collective or individual) and what Johan Galtung has termed structural violence: those practices which disadvantage people due through unjust political or economic systems, and/or cultural traditions. Participants in the class will explore a broad range of historical examples of ways that people have responded creatively to situations of violence and injustice, and from this study, construct their own understandings of creative response to conflict.

**SW 1905 Freshman Seminar: High School: Moments, Memories & Meanings**

2 credit(s), max credits 6; prerequisite Fr;

**Instructor:** Baizerman, Michael Leon

**Description:** A course on "images of youth" can be about the many actual and possible representations of young people. As such, a course would examine a variety of notions about youth, the actual persons and "youth" the representation. Examination could be about the personal, social, and cultural spaces between actual (young) persons and their images and other representations, and how these vary (or not) by historical period, social arena, "style", ethnicity, geography, social class, sex/gender, language, and the like. Attention could be given to how these representations are (are not) embedded in larger reticula of scientific and lay theories of these people, their "stage of life", what is "natural" about their being as they are and doing as they do and what is "essential" (and/or the essence) of their person(hood) and of the images which portray them in the popular media, in scientific theories, in novels, films and plays, and in music, poetry, and art, for instance. This seminar will explore some of these and some other related themes in pursuit of responses to the local questions of this course: How are youth portrayed in a variety of media; how are they represented, and what are some images of youth which seem to guide our collective and individual responses to real world, everyday-life youth, and how are these images used by young people and adults to fashion their multiple identities in everyday life and in the reflective, personal self. In the University, "youth" is a subject (and object) "owned" by many academic disciplines and professions, and there can be (and is) disagreement between and among these about "the true nature" of these persons, the best ways to "enhance their healthy development" and to facilitate their "growing up" and "coming of age", and their place(s) within family, neighborhood, community, and nation. That is, "youth" is "contested terrain" and the vocabulary and rhetorics of this ongoing, but always changing (somewhat) "youth" will be new to you. That's inevitable and fine, because while you will spend most of our classroom time together talking with each other . Listening to each other, and learning to give constructive feedback will allow our community to flourish, and will give each of us individually new perspectives on our own writing and thinking processes. The course is planned carefully, especially the community based learning experiences. Please don't fall behind; the sequence of readings and activities are meant to be done in the order I've assigned them.

**Style:** 25% Discussion, 25% Small Group Activities, 25% Student Presentation, 15% Service Learning.

**Grading:** 35% Special projects, 20% reflection paper, 30% class participation, 15% other evaluation. Other Evaluation: service learning.

**SW 3701 Introduction to Child Maltreatment: Intervention and Prevention**

3 credit(s);

**Instructor:** Gilgun, Jane F

**Description:** This interdisciplinary liberal arts course is a comprehensive study of child maltreatment as a form of family violence today. It is intended to offer the undergraduate student a wide breadth of understanding regarding the prevalence, scope, dynamics, contemporary responses and prevention strategies for child abuse and neglect. It will consider individual, familial, and community analysis of the issue. The course is structured to examine child abuse within an ecological perspective and a risk/resilience framework. It will address developing strategies likely to support healthy children, families, and communities. This should be considered a beginning study for students interested in working with children, their families and child welfare policies. Course content is particularly relevant to students in the fields of social work, sociology, education, child psychology, early childhood education, public health, public policy, and other related areas.

**SW 3702 Introduction to Adult Intimate Partner Violence: Intervention and Prevention**

3 credit(s);

**Instructor:** Witt, Jennifer Lynn

**Description:** This course is designed as an introduction to the study of Intimate Partner Violence (IPV) in the adult population. It will introduce students to current theories, research, and prevention practice in the area of family violence. The content of the course focuses on the intervention and prevention of intimate partner violence, including preventing violence against women (battering, sexual assault, stalking) and abuse of vulnerable adults (elderly, non-elderly vulnerable populations) within the United States. A major emphasis in this course will be on prevention of adult IPV and social interventions aimed at ending violence in families once it occurs. This includes direct work with victims of abuse, assailants, and their families as well as community-level and policy interventions. The course will also
integrate issues of gender, race, culture, age, physical ability, socio-economic status, and sexual orientation throughout our examination of these topics. This course is open to all undergraduates and serves as a required course in the Family Violence Prevention Minor. Because other required courses in the Minor cover child maltreatment and gender violence in global perspectives, this course will emphasize prevention and intervention practices with a focus on family violence against adults in North America.

SW 3703 Gender Violence in Global Perspective
3 credit(s); Meets CLE req of International Perspect Theme; Instructor: Sharma, Alankaar
Description: This course examines gender violence in its multiple forms from a global perspective. An introduction to the history of violence against women, current theories and research on the causes of violence in intimate relationships, past and current responses, and interventions and prevention models to address this worldwide problem will be discussed. Understanding the multiple approaches for addressing gender violence will provide students the knowledge to describe culturally competent intervention and prevention strategies. This course is designed to meet the social science diversified core requirement and the international perspectives designated theme requirement of the University’s Liberal Education requirement. There are no prerequisites for this course. This course is one of the required courses for the School of Social Work’s undergraduate Family Violence Prevention Minor. Course content will be delivered using a variety of lectures and instructional methods. Lectures, discussions, guest speakers, videos, and small groups will be utilized. Use of technology will involve email and e-reserve.

SW 4501 Senior Seminar in Social Justice
A-F only, 4 credit(s); prereq 2501, 3501; Instructor: Albrecht, Lisa D
Description: This course is the last of three required courses that are part of the interdisciplinary, cross-college undergraduate minor in Social Justice. This seminar brings together the theories and practices of social justice that you have explored as part of your required minor courses and your elective courses, and your community based learning experiences. We will continue to engage in dialogue about the many meanings of social justice, and we will also focus two issues of contemporary importance: immigration and terrorism. The key work of this seminar will be your own self-designed final social justice portfolio. It will represent the culmination of your experiences as a student in the Social justice minor program. Each student will complete a social justice portfolio, and present their work to the seminar as well as the general public. As we have done in each of the required courses, we will continue to ask ourselves questions about the meanings of citizenship and democracy in the U.S., particularly as they relate to social justice. We will also continue to do community based learning (service learning) in a social justice organization. Another major goal of this course is to create a community of learners in our classroom. In forming this environment, students should be prepared to be active in class. Since this is not a lecture class, we will spend most of our classroom time together talking with each other. Listening to each other, and learning to give constructive feedback will allow our community to flourish, and will give each of us individually new perspectives on our own writing and thinking processes. The course is planned carefully, especially the community based learning experiences. Please don’t fall behind; the sequence of readings and activities are meant to be done in the order I’ve assigned them.

Style: 25% Discussion, 30% Small Group Activities, 25% Student Presentation, 5% Guest Speakers, 15% Service Learning.
Grading: 15% reports/papers, 55% special projects, 15% class participation, 15% other evaluation.

SW 5313 Social Work with Older Adults
2 credit(s); prereq Grad or non-degree seeking student or instr consent; Instructor: Lee, Hee Yun
Description: Student may contact the instructor or department for information.

SW 5317 Social Work With Involuntary Clients
2 credit(s); prereq Grad or non-degree seeking student or instr consent;
Instructor: Rooney, Ronald H
Description: Student may contact the instructor or department for information.

SW 5519 Mediation and Conflict Resolution
3 credit(s); prereq =8519;
Instructor: Umbreit, Mark S
Description: Student may contact the instructor or department for information.

SW 5708 Substance Abuse and Social Work
3 credit(s); prereq Grad or non-degree seeking student or instr consent;
Instructor: Van Slyke, Victoria D
Description: Student may contact the instructor or department for information.

SW 5711 Co-Occurring Addictive and Mental Health Disorders
A-F only, 2 credit(s); prereq Cannot be taken for cr by MSW students;
Instructor: Dimock, Peter Trier
Description: Student may contact the instructor or department for information.

SW 5810 Seminar: Special Topics: Strategic Risk Management in Agencies
1 credit(s), max credits 10, 3 repeats allowed;
Instructor: Cain, Therese Marie
Description: Student may contact the instructor or department for information.

SW 5810 Seminar: Special Topics: Developing and Managing an Agency Budget
1 credit(s), max credits 10, 3 repeats allowed;
Instructor: Cain, Therese Marie
Description: Student may contact the instructor or department for information.

SW 6810 Seminar: Special Topics: Work with Immigrant Populations
2 credit(s), max credits 10, 3 repeats allowed;
Instructor: Lytle, Kathleen J
Description: Student may contact the instructor or department for information.

SW 6810 Seminar: Special Topics: Depression: New Topics in Clinical Care
2 credit(s), max credits 10, 3 repeats allowed;
Instructor: Meier, Mark Alan
Description: Student may contact the instructor or department for information.

SW 6810 Seminar: Special Topics: Depression: New Topics in Clinical Care
2 credit(s), max credits 10, 3 repeats allowed;
Instructor: Meier, Mark Alan
Description: Student may contact the instructor or department for information.

SW 6810 Seminar: Special Topics: SW Interv for Treating Trauma
2 credit(s), max credits 10, 3 repeats allowed;
Instructor: Hoy, Judith M
Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I
S-N only, 1-8 credit(s), max credits 8; prereq 8201;
Instructor: Sullivan, Maura C
Description: Student may contact the instructor or department for information.
**SW 8010 Seminar: Field Practicum I**  
S-N only, 1-8 credit(s), max credits 8; prereq 8201;  
*Instructor*: Maxwell, Steve  
*Description*: Student may contact the instructor or department for information.

**SW 8010 Seminar: Field Practicum I**  
S-N only, 1-8 credit(s), max credits 8; prereq 8201;  
*Instructor*: Gilbert, MJ  
*Description*: Student may contact the instructor or department for information.

**SW 8010 Seminar: Field Practicum I**  
S-N only, 1-8 credit(s), max credits 8; prereq 8201;  
*Instructor*: Walthour, Kate Ann  
*Description*: Student may contact the instructor or department for information.

**SW 8030 Advanced Standing Social Work Practicum**  
S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;  
*Instructor*: Maxwell, Steve  
*Description*: Student may contact the instructor or department for information.

**SW 8030 Advanced Standing Social Work Practicum**  
S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;  
*Instructor*: Gilbert, MJ  
*Description*: Student may contact the instructor or department for information.

**SW 8030 Advanced Standing Social Work Practicum**  
S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;  
*Instructor*: Davila-Williams, Sonia  
*Description*: Student may contact the instructor or department for information.

**SW 8030 Advanced Standing Social Work Practicum**  
S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;  
*Instructor*: Walthour, Kate Ann  
*Description*: Student may contact the instructor or department for information.

**SW 8101 Social Policy and Delivery Systems for Child Welfare and Family Services**  
A-F only, 3 credit(s); prereq [8211, advanced standing] or instr consent;  
*Instructor*: Kincaid, Tamara  
*Description*: Student may contact the instructor or department for information.

**SW 8102 Social Work Methods: Practice With Families and Groups**  
A-F only, 3 credit(s); prereq 8201 or instr consent;  
*Instructor*: Van Slyke, Victoria D  
*Description*: Student may contact the instructor or department for information.

**SW 8103 Health and Mental Health Policy**  
A-F only, 3 credit(s); prereq 8201 or instr consent;  
*Instructor*: Jones, Linda E  
*Description*: Student may contact the instructor or department for information.

**SW 8111 Macro Social Work Practice and Policy Advocacy**  
A-F only, 3 credit(s); prereq 5101 or instr consent;  
*Instructor*: Freeman, Iris Eve Chuven  
*Description*: Student may contact the instructor or department for information.

**SW 8111 Macro Social Work Practice and Policy Advocacy**  
A-F only, 3 credit(s); prereq 5101 or instr consent;  
*Instructor*: Lightfoot, Elizabeth Bradford  
*Description*: Student may contact the instructor or department for information.

**SW 8111 Macro Social Work Practice and Policy Advocacy**  
A-F only, 3 credit(s); prereq 5101 or instr consent;  
*Instructor*: Norman, Gary  
*Description*: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

SW 8314 Social Work Interventions With Families
3 credit(s); prereq =5318; adv standing or 8202 or instr consent; Credit will not be granted if credit has been received for: SW 5318;
Instructor: Hendrickson, Trude D
Description: Student may contact the instructor or department for information.

SW 8314 Social Work Interventions With Families
3 credit(s); prereq =5318; adv standing or 8202 or instr consent; Credit will not be granted if credit has been received for: SW 5318;
Instructor: Hoy, Judith M
Description: Student may contact the instructor or department for information.

SW 8503 Personnel Leadership and Management
3 credit(s); prereq [Foundation curriculum, advanced standing] or instr consent;
Instructor: Cain, Therese Marie
Description: Student may contact the instructor or department for information.

SW 8525 Global Perspectives on Social Welfare, Peace, and Justice
A-F only, 3 credit(s); prereq [8211, advanced standing] or instr consent;
Instructor: Menanteau, Dario
Description: Student may contact the instructor or department for information.

SW 8601 Social Work Research Methods
A-F only, 3 credit(s); prereq MSW student or instr consent;
Instructor: Bogenschutz, Matthew David
Description: Student may contact the instructor or department for information.

SW 8601 Social Work Research Methods
A-F only, 3 credit(s); prereq MSW student or instr consent;
Instructor: Eaton, Charissa Kate
Description: Student may contact the instructor or department for information.

SW 8601 Social Work Research Methods
A-F only, 3 credit(s); prereq MSW student or instr consent;
Instructor: Fisher, Colleen
Description: Student may contact the instructor or department for information.

SW 8803 Social Work Supervision, Consultation, and Leadership
2 credit(s); prereq Foundation courses or advanced standing or instr consent;
Instructor: Van Slyke, Victoria D
Description: Student may contact the instructor or department for information.

SW 8855 Social Policy Formulation and Analysis
A-F only, 3 credit(s); prereq Soc wk PhD student or instr consent;
Instructor: Lightfoot, Elizabeth Bradford
Description: Student may contact the instructor or department for information.

SW 8872 Social Work Research Seminar II
A-F only, 3 credit(s); prereq 8871 or instr consent;
Instructor: Kivnick, Helen Quintessa
Description: Student may contact the instructor or department for information.

SW 8875 Research Practicum
S-N only, 2 credit(s), max credits 6, 3 repeats allowed;
prereq Soc wk PhD student or instr consent;
Instructor: Reinardy, James Robert
Description: Student may contact the instructor or department for information.

SAP 8100 Seminar
A-F only, 1 credit(s), max credits 8, 8 repeats allowed;
prereq Grad SAPh major or instr consent;
Instructor: Schommer, Jon C
Description: Student may contact the instructor or department for information.

SAP 8173 Principles and Methods of Implementing Research
3 credit(s); prereq Two grad stat courses; Credit will not be granted if credit has been received for: NURS 8173;
Instructor: Gross, Cynthia R
Description: Student may contact the instructor or department for information.

SAP 8200 Research Problems
1-8 credit(s), max credits 16, 16 repeats allowed; prereq
Grad SAPh major or instr consent;
Instructor: Skaar, Debra Jane
Description: Student may contact the instructor or department for information.

SAP 8420 Social and Behavioral Aspects of Pharmacy Practice
A-F only, 3 credit(s); prereq Grad SAPh major or instr consent;
Instructor: Worley, Marcia Marie
Description: Student may contact the instructor or department for information.

SAP 8840 Social Measurement
A-F only, 3 credit(s); prereq Intro stat course, understanding of simple correlations or instr consent;
Instructor: Cline, Richard R
Description: Student may contact the instructor or department for information.

Sociology
909 Social Sciences Tower

SOC 1001 Introduction to Sociology
4 credit(s); prereq Soc majors/minors must register A-F;
Credit will not be granted if credit has been received for: SOC 1011V; Meets CLE req of Cultural Diversity Theme;
meets CLE req of Social Science Core;
Instructor: Swartz, Teresa Toguchi
Description: This course is designed to introduce you to the study of society and what Mills calls the "sociological imagination:" a way of viewing the events, relationships and social phenomena that shape our individual lives and much of our collective experience. Through the course we will examine some of the central concepts and problems that have preoccupied both classical and contemporary sociologists, and gain a sense of how the sociological imagination can illuminate the social forces that have a concrete impact on our everyday life.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
lives. We will first explore the creation and maintenance of the social order as well as the social processes by which people develop a sense of self and negotiate meanings in everyday social interactions. We then take a look at social structure, social institutions and social stratification. Finally, we will explore how, why, and when social life changes. Throughout the course you will be asked to consider the ways in which society affects your life, and how you, in turn, affect society. Class time will be a mix of lecture, discussion, multimedia, small group work and in-class exercises. The course is targeted to undergraduate majors and non-majors.

**Style:** 50% Lecture, 20% Discussion. videos, small group work, in-class activities, other

**Grading:** 45% mid exam, 40% reports/papers, 15% other evaluation. class participation/activities/quizzes/labwork

**Exam Format:** multiple choice, short answer, short essay

### SOC 1001 Introduction to Sociology

4 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for:

SOC 1011V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Liebler, Carolyn

**Description:** In this course, the student is encouraged to develop his or her sociological imagination and to apply it to the world around us. In the first section of the semester, we focus on ways in which culture, socialization, social interactions, and social control affect our day-to-day lives. Then we investigate the impacts of four key master statuses: social class, gender, race, and living as an American. These master statuses have fundamental but sometimes subtle effects on the opportunities and constraints that each of us face. In the final section of the course, we focus on a variety of other aspects of the social world (family, education, and globalization, for example) to further understand how personal troubles can be seen and analyzed as public issues using core theories and the student's sociological imagination.

**Style:** 50% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities.

**Grading:** 16% mid exam, 16% final exam, 24% reports/papers, 16% additional semester exams, 14% class participation, 14% laboratory evaluation.

**Exam Format:** Multiple choice questions, short answer, and short essay

### SOC 1001 Introduction to Sociology (Honors)

4 credit(s); prereq Honors; Credit will not be granted if credit has been received for:

SOC 1011V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Abdi, Cawo

**Description:** This course introduces to the student pivotal questions that underpin classical and contemporary sociological perspectives. Issues on how society is possible and how social order is maintained are core to an understanding of ourselves as both agents and objects that shape and are shaped by our membership in society. We will examine this close relationship between the individual, society, and social structures to better appreciate the dynamics of social and power relations in our everyday living. The course explores diverse sociological theories purporting to explain current and past socio-political and economic structures. It also centralizes the importance of change and the forces that drive or/hinder change.

**Style:** 50% Lecture, 30% Film/Video, 20% Discussion. videos

**Grading:** 20% mid exam, 20% final exam, 24% quizzes, 10% attendance, 20% reflection paper, 10% laboratory evaluation.

**Exam Format:** Multiple choice questions, True/False

### SOC 1011V Honors: Introduction to Sociology

4 credit(s); prereq honors; Credit will not be granted if credit has been received for: SOC 1001; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

**Instructor:** Swartz, Teresa Toguchi

**Description:** This course is designed to introduce you to the study of society and what Mills calls the "sociological imagination: a way of viewing the events, relationships and social phenomena that shape our individual lives and much of our collective experience." Through the course we will examine some of the central concepts and problems that have preoccupied both classical and contemporary sociologists, and gain a sense of how the sociological imagination can illuminate the social forces that have a concrete impact on our everyday lives. We will first explore the creation and maintenance of the social order as well as the social processes by which people develop a sense of self and negotiate meanings in everyday social interactions. We then take a look at social structure, social institutions and social stratification. Finally, we will explore how, why, and when social life changes. Throughout the course you will be asked to consider the ways in which society affects your life, and how you, in turn, affect society. Class time will be a mix of lecture, discussion, multimedia, small group work and in-class exercises. This honors section provides an opportunity for more intensive discussion and for hands-on learning with original field research projects.

**Style:** 40% Lecture, 30% Discussion. videos, in-class exercises, student presentations, field research projects

**Grading:** 40% mid exam, 40% reports/papers, 20% other evaluation. participation/activities/presentations

**Exam Format:** multiple choice, short answer, essay

### SOC 3003 Social Problems

A-F only, 3 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;

**Instructor:** Logan, Enid Lynette

**Description:** How do we decide that something is a social problem, and what do we do about it? How do race, class and gender impact our understandings of social problems in the contemporary United States? Who is primarily responsible for addressing social problems-- individuals, the government, churches, schools, or other institutions? In this class, we will examine some of the major social problems facing the United States today. Specially, we focus on controversies surrounding the 1) American family, 2) crime and punishment, 3) the distribution of wealth & income, 4) the degradation of the environment, 5) health care, science and medicine, and 6) the political system. In order to illustrate the issues to be discussed, we will watch segments from a number of recent documentary films such as Everything's Cool, Daddy & Papa, Sicko, The Boys of Baraka and Omar & Pete.

**Style:** 30% Lecture, 25% Film/Video, 45% Discussion.

**Grading:** 15% mid exam, 15% final exam, 35% reports/papers, 15% in-class presentation, 20% class participation.

**Exam Format:** essay, as well as multiple choice and true/false

### SOC 3090 Topics in Sociology: Science & Politics of Global Warming

3 credit(s), max credits 6; prereq Soph or above or instr consent ; 1001 recommended; soc majors must register A-F;

**Instructor:** Broadbent, Jeffrey Praed

**Description:** Welcome to the Science and Politics of Global Warming! Today media often carry headlines warning the public of the dangers of human-induced global climate change. New signs of global warming, such as melting mountain glaciers and shrinking Arctic Ocean ice cover, are reported. At the same time there are claims and accusations that global warming is just a hoax. On the socio-political front too, there are conflicting positions about what needs to be done if anything about global climate change. Even amongst those who accept that global warming is occurring, there is little consensus about how to mitigate the human impacts and at what cost. In this course, we will examine global warming from both the natural science and social science perspectives. The goal of the science portion, taught by Matsumoto, is to clarify what we know and how well we know about global warming: the physics of greenhouse effect (why Earth is habitable compared to Mars and Venus?), the global carbon cycle (what is the consequence of burning oil?), and future global climate forecasts (what awaits us). The goal of the politics portion of the course, taught by Broadbent, is to identify our options for lessening the risks posed by climate change, in particular by reducing our emissions of...
greenhouse-effect gasses, and to examine the social and cultural barriers against and pathways toward accomplishing such counter-measures.

Style: 85% Lecture, 5% Discussion, 5% Student Presentation, 5% Guest Speakers.

**SOC 3090 Topics in Sociology: Global Institutions of Power:** World Bank, Internat 3 credit(s), max credits 6; prereq Soph or above or instr consent; 1001 recommended; soc majors must register A-F; Instructor: Goodwin, Michael R Description: Student may contact the instructor or department for information.

**SOC 3090 Topics in Sociology: Gender & the Family in the Islamic World** 3 credit(s), max credits 6; prereq Soph or above or instr consent; 1001 recommended; soc majors must register A-F; Instructor: Abdi, Cawo Description: This course explores the experiences of Muslim women and Muslim families from a historical and comparative perspective. Expanding the discussion on Muslim women's lives and experiences beyond the Middle East, by also centralizing those outside of this geographical area, is paramount to highlight the complex and diverse everyday experiences of women around the world. This wider lens exposes the limitations intrinsic in the stereotypical Western representation of Muslims in general and Muslim women in particular. We will examine the intricate web of gender and family power relations, and how these are contested and negotiated in these societies. Some of the themes the course explores include the debates on Muslim women and colonial representations, sexual politics, family, education and health, women and paid work, gender and human rights, and Islamic feminisms debates.

Style: 40% Lecture, 20% Film/Video, 20% Discussion, 15% Small Group Activities, 5% Field Trips.

**SOC 3090 Topics in Sociology: Selma to Soweto: Politics of Race, Space & Memory** 3 credit(s), max credits 6; prereq Soph or above or instr consent; 1001 recommended; soc majors must register A-F; Instructor: Autry, Robyn Kimberley Description: It is difficult to identify two countries where the idea of race has so strongly shaped social life than the United States and South Africa. We will explore how state-directed segregation shaped urban environments and how the legacies of these policies continue to do so. We will ask ourselves: How does race shaped the way people navigate public space? How has political change and gentrification transformed historical patterns of racial segregation? What is the importance of national contexts in understanding how local communities mobilize to resist change, re-imagine collective identities, and absorb new groups?

Style: 20% Lecture, 5% Film/Video, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 25% Service Learning

Grading: 30% reports/papers, 40% special projects, 15% in-class presentation, 15% class participation.

**SOC 3101 Introduction to the American Criminal Justice System** A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Instructor: Schaefer, Shelly Suzanne Whalen Description: This course provides a broad overview of the American criminal justice system. We will examine criminal justice decision-making, policing, criminal law, courts, prisons, and the juvenile justice system. Instead of using a traditional textbook, the course integrates readings from various sociological perspectives on crime. To supplement the readings, the course will include guest speakers from the Minnesota Department of Corrections, Hennepin County Jail, Anoka County Prosecutor's office, and Hennepin County Community Corrections along with selected videos. No previous knowledge of the criminal justice system is required.

Style: 50% Lecture, 25% Film/Video, 10% Discussion, 15% Exam Format: multiple choice.

**SOC 3102 Introduction to Criminal Behavior and Social Control** 3 credit(s); prereq Soc majors/minors must register A-F; Instructor: Woźniak, Jesse S Description: This course is an in-depth sociological analysis of deviance and social control. We will examine the following questions: What constitutes “deviance?” and how has it changed over time? What are the defining characteristics of the “police?” and other forms of social control? What functions does social control serve, and how do these purposes change over time? How does “deviance” benefit certain groups and disadvantage others? What is the relationship between the social control and stratification? Most members of the general public view deviance as that which is illegal, and social control as the criminal justice response to protect us from bad people. But as sociologists, we know better than to accept the conventional wisdom. As such, this class is designed to critically examine deviance and social control. We will explore how deviance is created and defined by social parameters, and how it is structured to benefit certain members of our society at the detriment of most others. Similarly, we will examine methods of social control with an eye toward how they are constructed to maintain the status quo and contribute to deviance themselves. Finally, we will see how accepted definitions of deviance and social control combine to be a powerless restrictive force in our society.

Grading: 10% class participation, 90% other evaluation. 3 NONCUMULATIVE multiple choice exams + a NONCUMULATIVE final Exam Format: multiple choice.
student will carry out a study project in which to conduct interviews with or observations on two families, and the student’s term paper is to report and analyze the findings from this study about the relative stratification positions of these two families. Course grade is based on the quizzes (50%) and the term paper (50%). No final exam.

**Style:** 85% Lecture, 10% Discussion, 5% Student Presentation.

**Grading:** 40% reports/papers, 10% special projects, 50% quizzes. 10% “Special Projects” is for a study outline of 1-2 pages.

**Exam Format:** No exam. But each quiz is one page of 5 T/F or multiple-choice questions.

**SOC 3251W Sociological Perspectives on Race, Class, and Gender**

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: AFRO 3251W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

**Instructor:** Alaniz, Ryan Chelese

**Description:** In this course, we examine race, class and gender as bases of identity, stratification, and inequality. We explore the social construction of our core concepts in the contemporary U.S., asking how they shape each of our lives, life-chances, and daily interactions. We will divide our time between lecture, small and large group discussion, and viewing segments of documentary films. This is a writing-intensive course, and students will be expected to do a good deal of formal and informal writing. Active participation in discussion and engagement with the ideas is a must. In this class, you will connect the concepts drawn from the materials to your own life experiences and thoughts about the world, and learn from the experiences and thoughts of others. In the first week of the class, we examine the social construction of Race, Class, Gender and Sexuality in American society. We then move to look at the workings of these concepts in different interpersonal and institutional settings. These include the Labor Force, Schools, the Family, the Criminal Justice System, understanding Violence, and the politics of Language. In the last week of the class we discuss individual and corporate approaches to overcoming injustice.

**Style:** 25% Lecture, 50% Discussion. viewing & discussion of documentary films

**Grading:** 55% reports/papers, 15% special projects, 10% quizzes, 20% class participation, group presentation

**Exam Format:** quiz will be multiple choice and essay. no exams!

**SOC 3251W Sociological Perspectives on Race, Class, and Gender**

A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: AFRO 3251W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

**Instructor:** Logan, Enid Lynette

**Description:** This course serves up an introduction to classical and contemporary themes in sociological theory. Social theory offers a unique framework for understanding the muddled social worlds in which we live. Theory also informs our sociological research questions and the strategies we use to explore them. In this class we will focus on the major themes found in sociological theory and the social, political, economic, and historical contexts in which they developed. The class will begin with the classical works of Max Weber, Emile Durkheim, and Karl Marx, before moving into more contemporary schools of thought, such as postmodernism, feminist theory, and postcolonialism. The goal of the class is to develop a critical understanding of the Big Ideas in social theory and use this knowledge to better grapple with our own social curiosities. Class sessions will include lecture, group discussions, and a mix of film and music.

**Style:** 60% Lecture, 10% Film/Video, 30% Discussion.

**Exam Format:** Essay

**SOC 3701 Social Theory**

A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;

**Instructor:** Longhofer, Wesley A

**Description:** This course explores population dynamics in global perspective. Students will learn major population theories and measures. We will closely examine the ways in which people enter and leave populations – by birth, death, or migration. We will explore societal differences in these phenomena and investigate their causes and consequences. In particular, we will explore differences in the population situations in highly developed and less developed nations, and differences between subgroups within societies. Within-country differences in population processes exist along gender, race, and social class lines. Key population policies will be discussed.

**Style:** 60% Lecture, 40% Discussion.

**Exam Format:** multiple choice, short answer, essay
negotiate the world better. Because our social life is messy, sociological theories can never be as exact as the theories that physicists or mathematicians use. But good theories can help us see things that we did not (or could not) see before. In this class, we cover a range of social thought, from the classical works of Marx, Durkheim and Weber, through more contemporary theories of the social world. We emphasize three main goals: learning to read and understand key theoretical work in sociology; using work to better understand the social world around us; and along the way developing our own theoretical perspectives.

**Style:** 70% Lecture, 10% Film/Video, 20% Discussion.

**Grading:** 60% reports/papers, 65% additional semester exams, 5% attendance, 10% journal. Journals are interactive, built around on-line discussion forum.

**Exam Format:** Four in-class tests covering discrete course modules.

### SOC 3701 Social Theory

**A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;**

**Instructor:** Hull,Kathleen E

**Description:** This course provides an introductory overview of major social theories ranging from the foundational sociological theories of Marx, Weber and Durkheim to current theories of postmodernism and globalization. We will examine a range of theories with particular attention to their treatments of core sociological questions and concerns, including: What holds human societies together? How do societies reproduce themselves? Where are the key sources of social conflict, and how are they resolved or contained? What are the significant features of modernity, and what are the implications of modernity for social life? How are social identities created, sustained or transformed, and to what effect? Where is society headed in the future? The goals of the course are to deepen students' understanding of the significance of such questions and to provide a preliminary survey of theories that have tackled these questions from the late 19th century to the present. For present and future sociology majors, the course provides an indispensable background for subsequent work in the discipline. For all others, it provides an invitation to think about some of the most vital questions that confront us all as reflective and self-aware members of our communities and our world. The course design is premised on the idea that the best way to learn and understand social theory is by seeing its connection to contemporary issues and concerns. Therefore, the primary theory readings in this course are paired with writings that illustrate the relevance of these theories to contemporary concerns or that directly apply the theories to current issues and questions.

**Style:** 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.

**Grading:** 35% mid exam, 35% final exam, 30% quizzes.

**Exam Format:** multiple choice, short answer and essay questions.

### SOC 3811 Basic Social Statistics

**4 credit(s); prereq 1001 recommended; soc majors must register A-F;**

**Instructor:** Grodsky,Eric S

**Description:** This course is designed to familiarize students with the logic and tools of empirical research and analysis used in Sociology. This course will help students acquire the specific skills essential to understanding reports of social science research in the popular media, to reading scholarly articles and books, and for planning and conducting their own research for course work or in your roles as employee or engaged citizen. Students will learn how to ask good research questions; to formulate sociological theories and hypotheses; to understand principles of conceptualization, measurement, sampling, and causal inference; to implement a variety of social science research designs; and to appreciate the ethical concerns that often accompany social science research. Although the course is not designed exclusively as a "how to" course, it is heavily oriented toward giving you practical experience working with different kinds of research methods.

### SOC 3811 Basic Social Statistics

**4 credit(s); Meets CLE req of Mathematical Thinking Core;**

**Instructor:** Knoke,David H

**Description:** This course will introduce sociology majors to basic statistical measures and procedures that are used to describe and analyze quantitative data in sociological research. The topics include: (1) displays of frequency and percentage distributions, (2) measures of central tendency and dispersion, (3) measures of association and correlation, (4) bivariate regression, and (5) hypothesis testing and statistical inference. Lectures on these topics will be given in class meetings, and lab exercises are designed to help students learn statistical skills needed to analyze quantitative data provided in the class. In addition to attendance to lectures and labs, students are expected to read 15-20 pages of the text per week. There will be a midterm exam and a final exam. Students will need a calculator for assignments and exams.

**Style:** 65% Lecture, 35% Laboratory.

**Grading:** 70% mid exam, 30% problem solving.

**Exam Format:** multiple choice, computational problems
SOC 4101W Sociology of Law
A-F only, 3 credit(s); prereq [1001, 3101, 3102] or [3111, 3701] recommended; soc majors/minors must register A-F; Meets CLE req of Writing Intensive; Instructor: Savelisberg, Joachim J
Description: COURSE CONTENT: Law and society are closely interrelated. The sociological analysis of society and its parts, e.g. polity, economy, organizations, and community, depends on the understanding of their legal environment. Law, on the other hand, cannot be understood without the social environment, the political economy, the communities, the organizations, and the decision making processes within and through which it functions. These concerns of the sociology of law will be central throughout this class. This class discusses specifically three distinct traditions in the sociology of law: I. evolutionary theories of law (e.g., Durkheim), II. conflict approaches (e.g., Marx), and III. approaches that focus on the relationship between law and the state (e.g., Weber). We further consider IV. law and issues of conflict resolution, V. the problem of law in the activist state and VI. the use of law to promote social change, for cases such as voting rights, school desegregation and equal employment opportunities. We also address VII. the internationalization of law. We finally VIII. learn about the legal profession. TARGET AUDIENCE: The primary audiences are sociology majors with a special interest in law and pre-law students from other major fields. The course may also be taken by law and graduate students (requirements will be more demanding for these).
Style: 60% Lecture, 25% Discussion. small group activities
Grading: 40% mid exam, 30% final exam, 30% reports/papers
Exam Format: multiple choice and short answer questions

SOC 4142 Juvenile Justice and Law
3 credit(s); prereq [3101 or 3102 or 3111 or instr consent ]; soc majors/minors must register A-F; Instructor: Page, Joshua A
Description: This course examines the development and transformation of the juvenile justice system. First, we study the origins of juvenile delinquency and juvenile crime as unique social problems in the United States. Then we analyze the history and operations of the juvenile court. Next, we examine short-term and long-term confinement of juvenile offenders in detention centers, treatment facilities, and youth prisons. Finally, we investigate current pressing juvenile justice issues including offender re-entry, racial disparities in youth penal institutions, and incarceration of juvenile offenders in adult prisons. This course includes lectures, class discussions and debates, guest speakers, documentary films, and a field trip to a juvenile correctional facility.
Style: 25% Lecture, 40% Discussion, 15% Small Group Activities, 5% Field Trips, 15% Guest Speakers
Grading: 30% mid exam, 40% final exam, 15% special projects, 15% class participation.

SOC 4149 Killing
3 credit(s); prereq Sr or grad student; soc majors/minors must register A-F; Instructor: Malmquist, Carl P
Description: Sociological, legal, and psychological aspects of diverse types of killing. The topic of “normal” killings is contrasted with various pathological types. Subtopics include: mentally disturbed killings, sexual killings, killings within families, gang killings, and terrorist killings.

SOC 4162 Criminal Procedure in American Society
3 credit(s); prereq 3101 or 3102 or 3111 or instr consent ; soc majors/minors must register A-F; Instructor: Samaha, Joel B
Description: Course Content: Balance between government power to enforce criminal laws and individuals’ right to be left alone by the government. Topics include: police power to stop and frisk, arrest, search, interrogate, and identify suspects; right to a lawyer; remedies for constitutional violations. Teaching methods: Read and discuss U.S. Supreme Court and other cases. Textbooks and other reading: Samaha, Criminal Procedure 7th edition (earlier editions won’t do). Audience: Upper division undergraduates in all departments and colleges; some graduate and professional students.
Style: 15% Lecture, 85% Discussion.
Grading: 90% other evaluation. 13 non cumulative short answer and essay exams; 10% participation in course surveys
Exam Format: 60% Identification, definition (no multiple choice); 40% case analysis essay

SOC 4246 Sociology of Health and Illness
A-F only, 3 credit(s); prereq One sociology course or instr consent ; soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; Instructor: Hernandez, Elaine M
Description: At some point in our lives each of us has been or will be affected by an illness. These experiences provide us with intimate exposure to the medical system and health care providers. How can we understand these interactions within the context of the larger health care system? The purpose of this course is to introduce students to the Sociology of Health and Illness, often referred to as Medical Sociology. Over the course of the semester, we will explore the institutional evolution of the current U.S. health care system; delve into individual illness experiences, help seeking behaviors, and health care utilization; examine health inequalities; and use social epidemiology and social networks to consider the broader social context.
Style: 30% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Guest Speakers, 10% Web Based.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.

SOC 4461 Sociology of Ethnic and Racial Conflict
3 credit(s); prereq 1001 recommended; soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspectives Theme; Instructor: Pellow, David
Description: This course introduces students to the theoretical and historical foundations of race relations in the United States. In particular, we focus on the formation of racial and ethnic identities; on how these are produced through political struggle at the local, national, global scales, and how they are maintained and transformed over time. We pay close attention to the ways in which race and ethnicity intersect with gender, sexuality, class, citizenship, and nation in order to better understand how systems of power, privilege, and inequality are constructed, reinforced, and challenged. The role and impact of social movements in shaping these social categories will be at the center of the course focus. Students are expected to apply social scientific concepts and theories to the subject matter, drawing on frameworks from Sociology, History, American Studies, Ethnic Studies, and Law. This multidisciplinary approach is intended to address important gaps in the study of race and ethnic conflict that necessarily exist within any single discipline. There will be
an (optional) opportunity for students to participate in a Service Learning component for the course in order to put your classroom knowledge to work in the community and to deepen and enrich your understanding of the subject matter through public engagement. This course meets the University of Minnesota’s Liberal Education requirement of the Cultural Diversity and Social Justice Theme.

**Style:** 65% Lecture, 10% Film/Video, 15% Discussion, 5% Small Group Activities, 5% Guest Speakers. Service learning project is optional.

**Grading:** 30% mid exam, 30% final exam, 10% quizzes, 20% written homework, 10% class participation.

**Exam Format:** Both the midterm and final exams will be take home tests requiring the use of course readings, lectures, discussions, and films to answer questions.

### SOC 4551 Sociology of Sexualities

3 credit(s); prereq 1001 or instr consent; soc majors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Oryt, Timothy Adam

**Description:** This course covers social scientific approaches to the study of sexual attitudes, behaviors and identities. The course challenges students to examine taken-for-granted beliefs about the naturalness of various sexual phenomena and deepens students’ understanding of how various social forces shape people’s sexual lives. The course will focus on the diversity of thought, behavior and lived experience of individuals with regard to sexuality.

**Style:** 50% Lecture, 20% Film/Video, 20% Discussion, 10% Guest Speakers.

### SOC 4966W Major-Project Seminar

A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;

**Instructor:** Hartmann, Douglas

**Description:** This section is a new, capstone version of the senior projects course that is designed to provide students with an opportunity to think about how the knowledge, skills, and insights of the sociology major can be used in lives and careers outside of the University. The course will begin by posing two questions (1) what is sociology? and (2) what is the role of sociological knowledge, research, and thought in contemporary American public life. It will proceed to consider different types of sociology and their various contributions. Instead of traditional research projects, students will be encouraged to conduct projects that are more engaged and applied in nature. Specifically, students will have the option of doing service learning (field papers or actual projects with participating organizations) or writing an extended reflective essay that utilizes the tools and theories learned across the major. In either case the final project will build on the values of critical thinking, effective communication, diversity, and social responsibility that are cultivated in sociology.

**Style:** 33% Lecture, 33% Discussion. paper development and one on one meetings with instructors

**Grading:** 60% reports/papers, 20% class participation, 20% other evaluation. paper proposals, outlines and drafts

### SOC 4966W Major-Project Seminar

A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;

**Instructor:** Mortimer, Jeeyan T

**Description:** The purpose of this course is to assist and encourage students in fulfilling CLA’s senior project requirement, the ‘capstone’ of the undergraduate career. Enrollment is limited to student majors in Sociology. The class provides a structure and guided format for completing the senior project. Through a series of assignments, students work through the choice of their topics, the formulation of a researchable question, selection of methods and data, written and oral presentation of findings, and drawing conclusions. In addition to the final senior paper, there are five written assignments: (1) topic; (2) questions and methods; (3) first draft of literature review and methods section; (4) first draft of entire paper, including findings and conclusions; and written comments on one other student’s draft paper and oral presentation. Class discussions focus on the stages of a research/writing project, the ethics of research on human subjects, challenges of writing, and the various issues and problems that the students in the class encounter as their work progresses. Readings provide guidelines about how to ask sociological questions, collect and interpret data, and clearly communicate research findings. Since the course centers on students’ projects, there is very little lecture.

**Style:** 10% Lecture, 70% Discussion. Students present their papers in class.

**Grading:** 65% reports/papers, 10% in-class presentation, 25% problem solving.

**Exam Format:** no exam

### SOC 4966W Major-Project Seminar

A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;

**Instructor:** Wick, Shawn

**Description:** Major Project Seminar is designed to provide the resources and guidance necessary for sociology majors to complete an independent research project. In doing so, I will present practical material relevant for each stage of the research and writing process including: formulating a research question, reviewing relevant literature, designing the data collection, collecting and analyzing data, and writing a final paper. At each of the abovementioned stages, you will write and submit a section of your paper, steadily working toward a complete research project due at the close of the semester. You will receive detailed written feedback and one-on-one consultation throughout the research and writing processes. Approximately one-third of class sessions will consist of short lectures aimed at refreshing your research skills and group discussions designed to elicit feedback on your project from peers. The remaining class sessions held in a computer lab are reserved for you to work on your project. Please contact Shawn Wick (Instructor) if you have any questions (smwick@umn.edu).

**Style:** 25% Lecture, 25% Discussion. Project/paper development and individual meetings with instructor/TA

### SOC 4978V Senior Honors Proseminar II

A-F only, 3 credit(s); prereq [4977V or instr consent], 3701, 3801, 3811, at least 9 additional upper div soc cr, sr soc honors major, dept consent; Meets CLE req of Writing Intensive;

**Instructor:** Aminzadeh, Ron R

**Description:** Student may contact the instructor or department for information.

### SOC 5090 Topics in Sociology: Civic Participation in Urban Poor Neighborhoods

1-3 credit(s), max credits 9, 3 repeats allowed; prereq Undergrad soc majors/minors must register A-F;

**Instructor:** Terrell, Teresa M

**Description:** PA 5490 CIVIC PARTICIPATION IN URBAN POOR NEIGHBORHOODS: THEORY, STRATEGIES AND STRUCTURES Spring 2009 3 credits. Monday/ Wednesday 4:00 - 5:15 p.m. Professor Teresa Terrell (terre058@umn.edu)

Economically disadvantaged neighborhoods tend to be viewed as dangerous places inhabited by dangerous and/or apathetic residents. Rather than dismissing all low-income neighborhoods as deficient in social capital, this course is designed to help students develop an understanding of how civic participation is activated and sustained in urban poor neighborhoods and the role that poverty and gender play in participation and leadership in these neighborhoods. We will examine theoretical research across several disciplines that focus on the activation and maintenance of civic participation, paying special attention to the social movement, social capital and civic engagement literatures. Using observational data from a two year study of participation in four urban poor neighborhoods, we will investigate the government and civic structures of neighborhoods and the strategies employed by neighborhood leaders that both encourage and discourage neighborhood participation. Readings

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
SOC 8001 Sociology as a Profession
S-N only, 1 credit(s), max credits 2; prereq Grad soc major;
Instructor: Swartz, Teresa Toguchi
Description: In this seminar first year Sociology graduate students will have the opportunity to explore the profession of Sociology. In this second semester of the Proseminar, students will participate in a series of "how to" sessions on topics such as preparing a CV, publishing journal articles and books, obtaining research fellowships and grants, and planning for the job market. The seminar will also include sessions on ethics in research and teaching, public engagement, and becoming a scholar.
Style: 100% Discussion.
Grading: 100% class participation.

SOC 8090 Topics in Sociology: Contexts Workshop:Graduate Student Editorial Board
1.5 credit(s), max credits 12, 4 repeats allowed; prereq instr consent;
Instructor: Hartmann, Douglas
Description: Students in the course will serve as the graduate student board and substantive contributors to Contexts, the American Sociological Association's journal currently housed in Minnesota. Instructor permission, based on a detailed application, is required to register for the course. In addition to experience and qualifications, the board will be selected so as to involve students from different stages in the program, substantive interest areas, and methodological specialties. Though there will be some overlap from year to year, participants in the course will rotate on an annual basis. The seminar is designed as a year-long 3-credit course (with 1.5 academic credits awarded for fall and 1.5 credits in spring) with the possibility of honorary stipends for the summer months.
Style: 10% Lecture, 40% Discussion, 10% Small Group Activities, 25% Student Presentation, 5% Field Trips, 10% Web Based.

SOC 8090 Topics in Sociology: Diversity, Solidarity, and the American Mosaic
3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent;
Instructor: Gertels, Joseph Howard
Description: As never before, Americans embrace and even celebrate diversity. At the same time, they worry about the basis for continued solidarity in our explicitly multicultural era. Our central framework will be this dynamic of diversity and solidarity in American life. This dynamic provides the thread that connects our investigations of race, religion, citizenship and inequality, as well as the uses and understandings of diversity itself. The course is structured around key readings and engaged discussions with visiting scholars doing influential and exciting work in this area. This graduate seminar builds upon the interests of the Mosaic Project, an ongoing research project in the department of Sociology. Students from Sociology, as well as Anthropology, Geography, American Studies and related disciplines are welcome.
Style: 10% Lecture, 40% Discussion, 40% Guest Speakers.
Grading: 80% reports/papers, 20% class participation.

SOC 8211 Race Relations Theory
3 credit(s);
Instructor: Pellow, David
Description: The purpose of this course is to examine the work of a range of scholars producing knowledge on how (primarily) race and ethnicity and other categories of difference (gender, sexuality, class, citizenship, nation, and empire) are constructed and used as fundamental organizing principles of society. We will begin with sociological traditions and draw on a sociological lens throughout the course, which we will apply to the work of scholars across many fields, including Sociology, History, Critical Race Theory, American Studies, Ethnic Studies, and Critical Gender Studies.
Style: 100% Discussion.
Grading: 40% final exam, 40% reflection paper, 20% class participation.
Exam Format: Final exam is a take-home written term paper.

SOC 8721 Theories of Social Psychology
3 credit(s);
Instructor: Mortimer, Jeylan T
Description: Social psychology is basic to an understanding of social life, including social phenomena at both macro- and micro-levels, and the linkages between them. Social psychology is central to the link between structure and agency, as it considers how individual-level perceptions, cognitions, goals and behavioral strategies operate in social contexts. This seminar starts with an examination of "personal structure," emphasizing the cultural variability of self-conceptions and identities, cognitive processes, emotion and motivation, as well as biosocial bases of action. We review individual-level "building blocks" of social psychological theories, including attitudes and values, identities, and emotions. We then apply prominent theories of social psychology, symbolic interactionism and exchange theory, to the study of interpersonal relations, networks, and group dynamics. Structural social psychology ("social structure and personality"), of special relevance to the study of the self, attitude formation, stress, coping, and mental health, is then considered. Finally, we discuss how the social psychological theories and conceptual frameworks considered in the seminar illuminate key substantive topics of interest to sociologists, with emphasis on inequality e.g., the effects of class, minority status, and gender on disparities in self-concept, identity and health; the development of status hierarchies in face to face and small group interaction; and intergroup relations, prejudice, and discrimination. Social psychological perspectives on work and social mobility, the life course, deviance, and social movements are also addressed.
The required readings feature the contemporary theoretical and substantive literature. Students are expected to write a term paper or two shorter papers that relate the subject matter of the seminar to their own areas of interest. For further information, contact Jeylan Mortimer at mrt002@umn.edu or 612 624 4064.
Style: 25% Lecture, 55% Discussion, 20% Student Presentation.
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

SOC 8735 Sociology of Culture
3 credit(s);
Instructor: Edgell, Penny A
Description: This course provides an overview of cultural sociology. The first part of the course covers central readings in theory and method; in the second half we read the best contemporary empirical work in the subfield. We will consider why the field has moved away from a focus on culture as ideas and ideals and toward a conception of culture as practice and institution, and we will read newer work emphasizing the relationship between culture, embodiment, and emotion. The course places at the forefront questions of resources, power, identity, globalization, and social change, and considers several theoretical approaches to the relationship between culture, structure, agency, and change. Readings span national contexts and include comparative analyses. Empirical works include analyses of political, civic, religious, and literary culture as well as everyday cultural practices and mass media.
Style: 10% Lecture, 40% Discussion.
Grading: Students do two in-class presentations on readings and submit written summaries, write a short (7 page) critical review of a reading, and write a paper presentation.
relating course ideas to a research problem of their choice.

SOC 8790 Advanced Topics in Sociological Theory: Contemporary Social Theory
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Goldman, Michael R
Description: This graduate seminar will explore some of the key questions, concepts, and methodological approaches of three contemporary social theorists: Antonio Gramsci, Michel Foucault, and Pierre Bourdieu. We will focus on their understandings of the relationships among culture (including subjectivity and the body), social structure, and power/domination (including state, inter-group, and inter-personal dynamics). We will also read from feminists, race theorists, and scholars from the global South to understand how these theories travel, are challenged, and become transformed.

SOC 8801 Sociological Research Methods
A-F only, 4 credit(s); prereq Grad soc major or instr consent;
Instructor: Macmillan, Ian Ross
Description: Student may contact the instructor or department for information.

SOC 8811 Advanced Social Statistics
A-F only, 4 credit(s); prereq 5811 or equiv, grad soc major or instr consent;
Instructor: Grodsky, Eric S
Description: Student may contact the instructor or department for information.

SOC 8821 Research Practicum
3 credit(s); prereq Sociology grad student or instr consent;
Instructor: Edgell, Penny A
Description: This course is designed as a workshop, providing a supportive, collegial, and structured environment in which to work on an empirical research project that will lead to a publication (for example, a journal article or a book chapter). The class will walk you through the steps of defining a research question, framing it within the sociological literature, identifying appropriate data sources and designing and executing data collection, writing up results, and drafting a paper. I expect that students will have at least preliminary, exploratory data analysis completed by the end of the semester, and that the manuscript begun in the class will be completed and submitted for publication over the summer. Most reading will be for one?'s own research project, but for most weeks there are also general readings on methods. Students are expected to be proactive and self-motivated in finding additional resources needed to move their project along, in consultation with me and with other professors in the sociology department.
Style: 100% Discussion.

Software Engineering
6-202 EE/CSci

SENG 5115 Graphical User Interface Design, Evaluation, and Implementation
A-F only, 3 credit(s); prereq Grad SEng major;
Instructor: Kruse, John Michael
Description: Student may contact the instructor or department for information.

SENG 5131 Network Programming: Distributed Objects
A-F only, 3 credit(s), max credits 23, 1 repeat allowed;
prereq Grad SEng major;
Instructor: Calvo, Michael Joseph
Description: Student may contact the instructor or department for information.

SENG 5199 Topics in Software Engineering
A-F only, 2-3 credit(s), max credits 6; prereq SEng grad student;
Instructor: Vayghan, Jamshid A.
Description: Student may contact the instructor or department for information.

SENG 5708 Advanced Database Management
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
prereq Grad SEng major;
Instructor: Srivastava, Jaidheep
Description: Student may contact the instructor or department for information.

SENG 5802 Software Engineering II: Advanced Software Engineering
A-F only, 3 credit(s); prereq Grad SEng major;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

SENG 5811 Software Testing and Verification
A-F only, 2 credit(s); prereq 5801, grad SEng major;
Instructor: Bitzenhofer, Neil A
Description: Student may contact the instructor or department for information.

SENG 5831 Software Development for Real-Time Systems
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
prereq Grad SEng major;
Instructor: Vestal, Steve
Description: Student may contact the instructor or department for information.

SENG 5841 Model-based Development
A-F only, 3 credit(s); prereq Grad SEng major;
Instructor: Heimdahl, Mats Per
Description: Student may contact the instructor or department for information.

SENG 5852 Quality Assurance and Process Improvement
A-F only, 3 credit(s); prereq Grad SEng major;
Instructor: Hedger, Richard John
Description: Student may contact the instructor or department for information.

SENG 5900 Directed Study
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

SENG 8494 Capstone Project (Plan B Project)
S-N only, 3 credit(s); prereq SEng major;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Hedger, Richard John
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Carls, John Vincent
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Kruse, John Michael
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Vayghan,Jamshid A.
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Kan,Stephen Hauwah
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Schultta,Nathaniel T
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Freese,Jesse David
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Heimdahl,Mats Per
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Srivastava,Jaideep
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Bitzenhofer,Neil A
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Skovbrorden,John Emil
Description: Student may contact the instructor or department for information.

Description: Student may contact the instructor or department for information.

Soil 2125 Basic Soil Science
A-F only, 4 credit(s); prereq Chem 1011 or Chem 1021 or equiv; Credit will not be granted if credit has been received for: SOIL 1125; Meets CLE req of Environment Theme;
Instructor: Lamb,John A
Description: This is the introductory course for Soil Science. The material covered includes information on physical, chemical, and biological soil properties. These properties are related to agricultural and environmental examples where knowledge of soils is important. This course has 2 lectures a week (Monday and Wednesday), a self-paced laboratory, and a recitation session on Thursday. The overall goal of this course is to provide a foundation of Soil Science principles that can be applied to future study and everyday life.
Style: 40% Lecture, 20% Discussion, 40% Laboratory.
Grading: 29% mid exam, 20% final exam, 10% class participation, 19% laboratory evaluation, 22% problem solving.
Exam Format: Multiple choice and short answer.

SOIL 3416 Plant Nutrients in the Environment
3 credit(s); prereq 2125;
Instructor: Lamb,John A
Description: Student may contact the instructor or department for information.

SOIL 4093 Directed Study
1-7 credit(s), max credits 20, 20 repeats allowed; prereq instr consent ;
Instructor: STAFF
Description: Students who want to explore a special topic of their interest should visit with a faculty member who will direct their exploration. Report length dependent on the credits.
Style: Independent research

SOIL 4094 Directed Research
1-7 credit(s), max credits 7, 1 repeat allowed; prereq instr consent ;
Instructor: STAFF
Description: Students who want to do research in a special area should determine a faculty member who will guide their research activities. Research depth depends on the credits.
Style: Independent study

SOIL 4111 Introduction to Precision Agriculture
A-F only, 3 credit(s); prereq Basic sciences, statistics, soil, agronomy;
Instructor: Mulla,D J
Description: Student may contact the instructor or department for information.

SOIL 4505 Soil Geography: Soil Variability on Planet Earth
2 credit(s); prereq 1125 or 2125 or equiv;
Instructor: Cooper,Terence H
Description: Student may contact the instructor or department for information.

SOIL 5111 Practicum Internship in Precision Agriculture
S-N only, 2-5 credit(s), max credits 5, 1 repeat allowed;
Instructor: Mulla,D J
Description: Student may contact the instructor or department for information.

SOIL 5311 Soil Chemistry and Mineralogy
3 credit(s); prereq [[Chem 1022 or equiv], Phys 1102, grad] or instr consent ;
Instructor: Toner,Brandy Marie
Description: Student may contact the instructor or department for information.

SOIL 5515 Soil Genesis and Landscape Relations
A-F only, 3 credit(s); prereq 2125 or instr consent ;
Instructor: Nater,Ed
Description: Soil 5515 is an advanced undergraduate/graduate level course covering concepts of soil genesis and development, soil classification, and the distribution of soils across the landscape. The first part of the course uses conceptual and mathematical models to describe the processes and environmental factors affecting the development of soils, their horizons, and their properties. Particular emphasis is placed on development over time; paleosols are used to illustrate some of these points. The second part of the course consists of a brief introduction to the U.S. Soil Taxonomic System. Characteristic properties of individual soil orders are used to further illustrate soil development processes and the geographic distribution of soils. The final portion consists of an advanced treatment of soil--landscape relations and the processes and factors that lead to the distributions observed. This section utilizes GIS and soil landscape modeling to develop these concepts. An introduction

Soil, Water, and Climate
439 Borlaug Hall

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
to national soils databases and interpretations will be provided. Soil surveys are introduced, both from the viewpoint of making soil maps and their use and interpretation. Three weekend field trips are required: the first is a one-day trip to Cedar Creek Natural History Area; the second is a one-day trip to southeastern Mn.; and the third is a two-day trip through north central and northwestern Mn.

**Style:** 80% Lecture. Field trips

**Grading:** 20% mid exam, 20% final exam, 30% reports/papers, 30% special projects.

**Exam Format:** Essay

**SOIL 8110 Colloquium in Soil Science**

S-N only, 1-3 credit(s), max credits 6, 6 repeats allowed; Instructor: Toner, Brandy Marie

**Description:** Student may contact the instructor or department for information.

**SOIL 8123 Research Ethics in the Plant and Environmental Sciences**

S-N only, 0.5 credit(s); prerequisite Enrolled in a plant/environmental sci grad research prog; Credit will not be granted if credit has been received for: APSC 8123; Instructor: Steffenson, Brian Joel

**Description:** Student may contact the instructor or department for information.

**SOIL 8128 Seminar in Soils**

S-N only, 1 credit(s), max credits 2; Instructor: Halbach, Thomas R.

**Description:** Student may contact the instructor or department for information.

**SOIL 8195 Research Problems in Soils**

1-5 credit(s), max credits 10, 10 repeats allowed; prerequisite [Grad major in soil sci or related field], instr consent; Instructor: Nater, Ed

**Description:** Student may contact the instructor or department for information.

**SOIL 8252 Advanced Soil Physics**

2 credit(s); prerequisite [5232, differential equations] or instr consent; Instructor: Gupta, Satish C

**Description:** Student may contact the instructor or department for information.

**SOIL 8550 Teaching Experience**

S-N only, 1 credit(s), max credits 6, 6 repeats allowed; prerequisite Grad major in soil sci or related field, instr consent; Instructor: Allen, Deborah L

**Description:** Student may contact the instructor or department for information.

**Spanish**

**34 Folwell Hall**

**SPAN 144 Intermediate Medical Spanish**

S-N only, 0 credit(s); prerequisite [1st yr college-level Spanish or equiv], dept consent; Instructor: Lopez, Maria Emice

**Description:** This course is designed to help health care professionals communicate with patients who speak Spanish. Following the course, the student will be able to: use basic medical vocabulary in Spanish; ask questions and provide answers in common medical situations in Spanish; conduct patient interviews, medical histories, and physical examinations in Spanish; and understand cultural factors impacting health and medical care for Chicanos/Latinos. This course is partially internet delivered.

**Style:** In class: Active participation; and Individual work: Variety of assignments and group discussion on WebCT.

**SPAN 344 Advanced Medical Spanish**

S-N only, 0 credit(s); prerequisite Span 0144, 2 yrs. Spanish College Level or equiv, dept consent;

**Instructor:** Lopez, Maria Emice

**Description:** This advanced course is designed to help health care professionals communicate with patients who speak Spanish. This course will further develop and strengthen language skills and cultural awareness. Individual work is done on WebCT and CD-ROM. Activities focus on vocabulary, listening, reading, writing, and exploring cultural issues. This course is partially internet delivered.

**Style:** In class: Active participation; and Individual work: Variety of assignments and group discussion on WebCT.
SPAN 1003 Intermediate Spanish
5 credit(s); prerequisite [1002 or 1022] or EPT placement;
Instructor: STAFF
Description: This course is for those who have completed Spanish 1022 or 1002 with C- or better, or who have taken two or more years of Spanish in high school and have successfully passed the Entrance Proficiency Test (EPT) for this level. In this course, students build on the communicative speaking, writing, listening and reading skills that were acquired in beginning Spanish. The "Conexiones" series, text, lab manual and workbook, are used in class. Class activities are carried out almost entirely in Spanish. For the most part, grammar should be studied at home; a small percentage of class time is intended for grammar instruction and practice. Reading skills are developed through "Conexiones", and writing skills are developed through a variety of writing assignments. Each student will present an oral presentation on a topic related to those covered in "Conexiones" or in class. Because Spanish class is about the only place where a student can practice listening and speaking, class attendance is critical.
Style: 40% Discussion, communicative activities with language
Grading: 30% mid exam, 20% final exam, 15% reports/papers, 10% in-class presentation, 10% class participation, 5% laboratory evaluation, 10% other evaluation. Oral interview
Exam Format: Diverse - essay - fill in blank - short answer

SPAN 1004 Intermediate Spanish
5 credit(s); prerequisite 1003 or EPT placement; Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: STAFF
Description: This course is for those who have successfully passed Spanish 1003 with a C- or have passed the Entrance Proficiency Test (EPT) for this level. This course is a requirement for Spanish 3015. In this course, you will build on the communicative speaking, writing, listening and reading skills that you acquired during the first three semesters of Spanish. The "Conexiones" series, text, lab manual and workbook, are used in class. Class activities are carried out almost entirely in Spanish. For the most part, grammar should be studied at home; a small percentage of class time is intended for grammar instruction and practice. Reading skills are developed through "Conexiones", and writing skills are developed through process writing, a multi-step writing process which entails composition writing, rewrite, journal, pop-quizzes, etc. You will also prepare and present a debate with other classmates. Because Spanish class is about the only place where you can practice listening and speaking, class attendance is critical. Students in a BA, BFA and/or students pursuing health care field communicate with patients who speak Spanish, Basic Medical vocabulary, questions and answers in common medical situations, vocabulary and phrases to conduct patient interviews and medical history, vocabulary and conversation to conduct physical exams; understanding the Latin American view of health and health care. In terms of the grammatical aspects, the course covers same areas as Spanish 1004; therefore, students planning on taking Spanish 3015 will be prepared to do so. Besides in class activities, and for a better understanding of cultural aspects, students will perform individual work on WebCT and CD-ROM which concentrate on watching and listening, reading and writing about interviews of health care providers who work with Spanish speaking community, and interactions in the target language between doctors and patients. * Evaluation standards: Students will be evaluated on class participation, discussion of course content, exploration of cultural component, therefore class attendance is critical. Evaluation of communicative speaking, writing, listening and reading is done through exams, composition writing and presentation.
Application of Learning Technologies: each week online discussion of questions based on readings. The discussion requires thought about how a theme is related to aspects of interaction with the Chicano/ Latino population.
Style: 10% Lecture, 60% Discussion, language lab, listening, writing testing for comprehension and vocabulary and peer editing
Grading: 50% quizzes, 10% class participation, 5% laboratory evaluation. 15% written composition; 10% round-table discussion; 10% debate
Exam Format: Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items; encourage the use of natural language by using short answers, short/long essays. 1 debate

SPAN 1022 Alternate Second-Semester Spanish
5 credit(s); prerequisite Placement above 1001;
Instructor: STAFF
Description: This class is a first year Spanish course developed for students with previous language experience. The instructor and context are delivered by a combination of in class meetings and a wide range of online activities. The different online components were designed to help you become a more successful language learner by giving you the opportunity to explore different learning modes independently and to provide more exposure to the Spanish language. You will have the opportunity to experience different accents and regional variations, not just your instructor's, as well as a wealth of other authentic materials that would not be readily accessible in a regular classroom. For that reason the course requires a considerable amount of independent work to be completed online outside of the classroom contact hours. The regular class typically meets four days a week and the Technology-enhanced sections typically meet three days a week. All sections meet every day the first week of instruction NOTE: Students are not to schedule other classes or work on the days that the classes do not meet because some weeks classes will meet all five days and the instructors expect those 50-minute sections to be available for Spanish on short notice. The web activities are to be done outside of the classroom.
Style: 5% Lecture, 10% Discussion, 10% Laboratory, group work, reading and related activities
Grading: 20% final exam, 10% class participation, 10% laboratory evaluation, 25% other evaluation. Unit exams, 15% oral interview type evaluations, 10% written compositions and journals, 10% listening and workbook exercises
Exam Format: All quizzes and tests evaluate listening, reading, vocabulary, grammar & writing. A minimum of multiple choice & true/false items; encourage the use of natural language by using short answers and essays. Two oral interviews.

SPAN 1044 Intermediate Medical Spanish
5 credit(s); prerequisite 1003 or equiv; Credit will not be granted if credit has been received for: SPAN 1004;
Instructor: Lopez, Maria Emilee
Description: Course designed to help health care professionals and/or students pursuing health care field communicate with patients who speak Spanish, Basic Medical vocabulary, questions and answers in common medical situations, vocabulary and phrases to conduct patient interviews and medical history, vocabulary and conversation to conduct physical exams; understanding the Latin American view of health and health care. In terms of the grammatical aspects, the course covers same areas as Spanish 1004; therefore, students planning on taking Spanish 3015 will be prepared to do so. Besides in class activities, and for a better understanding of cultural aspects, students will perform individual work on WebCT and CD-ROM which concentrate on watching and listening, reading and writing about interviews of health care providers who work with Spanish speaking community, and interactions in the target language between doctors and patients. * Evaluation standards: Students will be evaluated on class participation, discussion of course content, exploration of cultural component, therefore class attendance is critical. Evaluation of communicative speaking, writing, listening and reading is done through exams, composition writing and presentation.
Application of Learning Technologies: each week online discussion of questions based on readings. The discussion requires thought about how a theme is related to aspects of interaction with the Chicano/ Latino population.
Style: 10% Lecture, 60% Discussion, language lab, listening, writing testing for comprehension and vocabulary and peer editing
Grading: 15% reports/papers, 50% quizzes, 10% in-class presentation, 15% class participation, 10% other evaluation.
Exam Format: Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items; encourage the use of natural language by using short answers, short/long reports
course seeks to integrate in a meaningful and "real world" fashion the student's ability to write, speak, read and understand modern Spanish at a level that is expected of majors and minors. Students will generate a series of creative and original compositions and will read a variety of texts from both Spain and Latin America. The class will employ diverse learning techniques -- grammar review, audio tape exercises, paired work, small group work, all class discussions, oral presentations, peer editing, process writing -- to provide students with the appropriate opportunities to enhance their language skills as they learn academic content through the active use of the Spanish language. This course requires a major time commitment on the part of each student registered.

Style: 25% Lecture, 50% Discussion, 15% peer editing, 10% preparing and presenting projects
Grading: 15% class participation, 5% participation in peer editing groups, 30% compositions and portfolio, 20% examinations, 10% reader's journal, 10% round-table discussion, 10% final research paper
Exam Format: Essays and short answers written in Spanish, together with grammar sections.

SPAN 3021 Advanced Communication Skills
4 credit(s); prereq 3015 credit will not be granted if credit received for: Tldo 3021;
Instructor: STAFF
Description: Spanish 3021 is the second of the upper division sequence for majors or minors. Students who received an A or B in Spanish 3015 under the semester system and feel linguistically prepared, have the option to advance to the 31xx series in lieu of 3021; however, they may substitute it later for an elective course. While this class is designed to further develop and strengthen the language skills, it seeks to integrate in a meaningful and "real world" fashion the student's ability to write, speak, read and understand modern Spanish at a level that is expected of majors and minors. Students will write summaries of lectures given by native speakers, two papers and reader's journals. They will give an oral presentation and read a variety of texts. The class will employ diverse learning techniques -- grammar review, audio tape exercises, paired work, small group work, all-class discussions, peer editing, and process writing -- to provide students with the appropriate opportunities to enhance their language skills as they learn academic content through the active use of the Spanish language. This course requires a major time commitment on the part of each student registered.

Style: 25% Lecture, 50% Discussion, 15% peer editing, 10% preparing and presenting projects
Grading: 20% mid exam, 20% quizzes, 10% in-class presentation, 10% class participation, 15% compositions and portfolio, 10% paper, 10% reader's journal, 25% final paper
Exam Format: Essays and short answers written in Spanish, together with grammar sections.

SPAN 3022 Advanced Business Spanish
4 credit(s); prereq [1014 or 1044 or 1044 or equiv], LPE in Spanish or instr consent credit will not be granted if credit received for: Tldo 3022, 3023;
Instructor: Morales, Flavio Antonio
Description: SPAN 3022: ADVANCED BUSINESS SPANISH Understand the critical cultural considerations of doing business in Latin America. Advanced Business Spanish aims to explore the cultural history, ethnicity, women's participation, government involvement, and political philosophies consistent with business practices in the Hispanic worlds. The influences of globalization and the role that neo liberalism and social democracy play in business decisions will be the main topic to be discussed. Other areas: NGOs, advertisements, etc. Consideration will be given to students' interests. Active participation is encouraged. The course packet readings will focus on actual business articles found on major e-newspapers and websites. A resume and an ideal cover letter will be designed by each student towards applying for a job placement in the Hispanic world. Students will do brief formal writing assignments with the goal of practicing language and grammar use, in addition to two compositions. There will be two exams based on the required readings. We will also watch two films that pertain with the social and business society representing life in Cuba. There will be a midterm power point 'sales pitch' project and a final presentation based on class work ideas. Span 3022 is equivalent to Span 3015 and Span 3021

SPAN 3044 Advanced Medical Spanish
4 credit(s); prereq [[1004 or 1014 or 1044 or equiv], LPE in Span] or instr consent;
Instructor: Lopez, Maria Emilce
Description: This course is designed to further develop and strengthen the linguistic skills and cultural awareness students have been exposed to and acquired in Intermediate Medical Spanish 1044 (Span1044). This higher language and culture level course, is designed to train health care professionals and/or Spanish Studies majors/ minors to communicate more effectively in linguistic and cultural terms with Spanish speaking patients. Students will explore more advanced and specific medical vocabulary, communication strategies and related cultural aspects. The goal is targeted to: improve conducting patient interviews and medical history, using vocabulary and conversation to conduct physical exams; and to better understand Latin American views on health and health care. The course applies a variety of communicative tasks to address learning skills, uses technology, and promotes discussion. Students are to read course related articles and perform assignments on Web-CT about CD-ROM segments outside of class. Web-CT activities focus on vocabulary, listening, reading, writing, and discussion. CD-ROM features videotaped interviews of a significant number of health care providers who work with the Spanish speaking migrant community and the unique opportunity to get perspectives on health related issues from Chicanos/Latinos in the Twin Cities. These exercises are intended to expose different captured views on health and health care, promote cultural awareness and cultural sensitivity.

Grading: 20% class participation, 15% other evaluation, compositions and portfolio. 5% participation in peer editing groups; 20% examinations; 10% web-CT activities and homework; 10% final research paper
Exam Format: Essays and short answers written in Spanish, together with grammar sections. Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true-false items.

SPAN 3104W Introduction to the Study of Hispanic Literatures A-F only, 3 credit(s); prereq [3015 with grade of at least B-] or successful completion of 3021; Credit will not be granted if credit has been received for: TLDO 3104; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This course aims to introduce students to basic concepts of literary criticism and analysis through reading, discussing and writing about a variety of texts in Spanish. These will broadly represent a range of genres, periods, and styles. As this a writing-intensive course, it will include regular practice of composition and revision of written Spanish as a means of interpreting and responding to literary texts.

Exam Format: 15% multiple choice and true/false items.

SPAN 3105W Introduction to the Study of Hispanic Cultures
3 credit(s); prereq [3015 with grade of at least B-] or 3021; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SPAN 3107W Introduction to the Study of Hispanic Linguistics
3 credit(s); prereq [3015 with grade of at least B-] or 3021; Credit will not be granted if credit has been received for: TLDO 3107; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SPAN 3212 Discourses of Modern and Contemporary Spain, 1800-Present
3 credit(s); prereq 3104;
Instructor: STAFF
SPAN 3222 Discourses of Modern and Contemporary Latin America

3 credit(s); prereq 3104 or 3105; Credit will not be granted if credit has been received for: TLD0 3222;
Instructor: Gordillo, Adriana Isabel

Description: Student may contact the instructor or department for information.

SPAN 3401 Service Learning in the Chicano/Latino Community

3 credit(s); prereq [3015 with grade of at least B-], LPE high pass; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;
Instructor: Ganley, Kathleen Marie

Description: Span 3401 meets the CLE requirements for Citizenship and Public Ethics and that for Diversity. This is a service-learning course in which students analyze U.S. power structures around Latino immigration and issues confronting societies with a rapid demographic change such as has been the case with Latino immigration. Topics covered include: the relationship between the global economic system and emigration from Latin America, human rights issues along the U.S./Mexican border, federal immigration reform, language issues, and Latino contributions to U.S. culture and economy. Students reflect on the societal and individual responsibility to create more inclusive and just political, economic, and educational systems within this country. Students will be challenged to analyze systems of social power and privilege in each of these topics by studying multiple perspectives, reflecting on their personal roles and, most importantly, by hearing the voices of Latino immigrants. Students will be expected to be active participants in dialogues with classmate and community members and have multiple opportunities to develop and express their opinions in a challenging and respectful environment. Students will be expected to connect what they are learning to their own lives and to the world around them. Students will become actively engaged in analyzing Citizenship, Public Ethics and Diversity issues through: * a 2 ? hour weekly seminar * 42 hours of community service working with Latino immigrants, speaking mostly Spanish, having ample opportunity for discussions on class and other topics. * Numerous interactions with Latino leaders in education, advocacy work, politics, and culture in class and visits to community organizations. * An analysis of the portrayal of Latinos in the U.S. media. * A letter to the editor on a current immigration issue or use of another media which educates the general public, such as a zine or video clip. * A meeting with their federal senator or representative to discuss immigration reform. * A presentation to the public on Latino immigration with a focus of their choice. * One persuasive paper, defending their positions on immigration reform. Objectives of this class are to create cross-cultural relationships, practice Spanish language skills, develop the ability to analyze social justice issues, and give students the tools to actively engage in participatory democracy throughout their lives.

Style: 85% Discussion, Videos, role-plays, simulations.
Grading: 10% final exam, 30% reports/papers, 20% special projects, 20% class participation, 20% other evaluation.

community service
Exam Format: no exams - 20% journals & homework, 10% final paper or project

SPAN 3404 Medical Spanish and Community Health Service
3 credit(s); prereq 3015 with grade of at least B- or [1044, high pass on at least three sections of LPE];
Instructor: Lopez, Maria Emile

Description: Medical Spanish and Community Health Service, an advanced language and culture course, is designed to train Spanish Studies majors/ minors to create materials for effective communication with and education of Spanish-speaking patients. In addition, Span 3404 has a service-learning component in which students apply academic knowledge to work done with community health care partners that serve the Chicano/Latino population. It should be noted, however, that students in Span 3404 will but not be involved in direct patient health care.

Style: 40% Discussion, student centered culture and special purpose language activities.
Grading: 50% other evaluation. Written reports and journals, online writing activities based on CD-ROM interviews, and development of brochure; 20% class participation and other class assignments such as discussion of readings and unit vocabulary quizzes, 30% Service Learning

SPAN 3501 Roots of Modern Spain and Latin America
3 credit(s); prereq 3105W; Credit will not be granted if credit has been received for: SPAN 3501H;
Instructor: Vargas-Salgado, Carlos

Description: This course offers a historiography and critical theory overview of the cultural development of relationships between Spain and Latin America from colonization to the beginning of the Independence movements in 19th century. Although some topics to be discussed include Hispania under the Roman Empire, the coexistence of Jews, Christians and Muslims in Medieval Spain, and on the other hand, Indigenous pre-Hispanic cultures; the main focus of this course will be the arrival of Europeans to the New World, colonization process in the Americas, and Coloniality as a World Order model from the early modern period. Architecture, historic documents, music, and the visual arts will be integrated to facilitate the students’ knowledge of the cultural diversity that is found within the Hispanic world. The goal is to stimulate critical thinking by the students and provide them with an understanding of the specific identities of the various geographic regions as well as the common historical and cultural roots that might allow us to speak of a Hispanic civilization. Some theoretical frames like coloniality, postcolonial theory and decolonization movements will be reviewed to highlight the specificity of Hispanic culture experience.

Style: 40% Lecture, 40% Discussion, 20% Student Presentation.
Grading: 10% mid exam, 20% reports/papers, 10% additional semester exams, 20% in-class presentation, 10% class participation. Final Paper: 30%

SPAN 3502 Modern Spain
3 credit(s);
Instructor: Larson, Keija C

Description: Student may contact the instructor or department for information.

SPAN 3510 Issues in Hispanic Cultures
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq 3105W credit will not be granted if credit received for: TIdo 3301, 3302, 3311, 3312, 3313, 3314, 3315, 3321, 3516, 3513, 3515, 3517;
Instructor: Calvo, Maria Antonia

Description: Contemporary Spain: The challenges of immigration Immigration is a new phenomenon in Spain. Over the past few decades Spain has been transformed from a country of emigrants to a destination for waves of immigrants from Latin America, Eastern Europe, and Asia. More than
any other European country, Spain has become a destination of choice for people from around the world. This course focuses on these new immigrants and the challenges immigration poses for contemporary Spain. Topics include discussion of the different kinds of immigrants to Spain (who they are, where they come from, and their motivations for immigrating); the challenges the new immigrants face; and the impact that the new immigrants have on Spain’s economy, health care, housing, and educational systems. The course also considers the legal, political, and public responses to immigration as well as the implications of immigration on public policy and on notions of citizenship in the twenty-first century. Throughout the course, efforts will be made to place the Spanish case in a larger comparative perspective to understand the similarities and differences between the Spanish experience and the patterns found elsewhere in Europe and in the United States.

Style: 50% Lecture. Other 50% is discussion and multi-media presentations.

Grading: 30% final exam, 45% reports/papers, 25% in-class presentation.

Exam Format: Essay and short answers.

SPAN 3510 Issues in Hispanic Cultures
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
prereq 3105W credit will not be granted if credit received for:
Tido 3301, 3302, 3311, 3312, 3313, 3314, 3315, 3321,
3516, 3513, 3515, 3517;
Instructor: Forcinito,Ana
Description: Student may contact the instructor or department for information.

SPAN 3512 Modern Latin America
A-F only, 3 credit(s);
prereq 3105W;
Instructor: Towle,Joseph Michael
Description: Student may contact the instructor or department for information.

SPAN 3612 Don Quijote and the Novel
3 credit(s);
Meets CLE req of Literature Core;
Instructor: Spadacini,Nicholas
Description: Cervantes's Don Quijote (1605; 1615) will be analyzed and discussed in light of literary, historical, philosophical, and social-cultural issues. Specific areas of discussion include Don Quijote and the poetics of the novel; its transgression of the limits of traditional prose-fiction genres (chivalric, pastoral, picaresque, etc.); its dialogue with the conservative culture of Counterreformation Spain; and presel-day debates between critics who adhere to traditional humanist and/or historicist readings and those whose work is informed by avant-garde, post-structuralist theory. Our general approach should also facilitate a discussion of the function of other types of discourses within the novel's frame. For example, one might argue that the purging of Don Quijote's library (I, 6) recalls the ritual discourse of the Inquisition; that Sancho's use of proverbs captures the weight of oral culture at a time when the majority of the population could neither read nor write; that the reactions of various characters to the oral reading of romances of chivalry allow us to speculate on matters of authority and authorial intentions as each listener brings to the reception his/her own preoccupations and tastes We shall also examine the strategy behind the novel’s inclusion of elements of both official and unofficial culture, and consider how Don Quijote manages to engage in popular practices.

Style: 60% Lecture, 30% Discussion. (Oral presentation? personal reflection on DON QUIJOTE)

Grading: 30% mid exam, 40% final exam, 10% reports/papers, 10% in-class presentation, 10% class participation.

Exam Format: Essays (analysis/discussion of key issues introduced in the course); Note: final exam is a take-home exam consisting of three questions to be distributed three weeks prior to the end of the semester.

SPAN 3701 Structure of Spanish: Phonology and Phonetics
3 credit(s);
prereq 3107; Credit will not be granted if credit has been received for:
SPAN 3701H;
Instructor: Face, Timothy L
Description: This course aims to provide undergraduate students with an understanding of the basic concepts of phonetics and phonology and to teach them to apply these concepts to Spanish. The course will be both conceptual and practical. The practical component will involve the students using the concepts learned in class to improve their own pronunciation of Spanish. Students will acquire skills in recognizing, producing, transcribing and describing in linguistic terms the sounds of Spanish and in understanding and analyzing the Spanish sound system. The conceptual component will involve understanding the relationship between sounds in the Spanish phonological system and studying other factors (linguistic, social, etc.) that influence this system.

Style: 50% Lecture, 30% Discussion. group activities

Exam Format: mixed format

SPAN 3704 Sociolinguistics of the Spanish-Speaking World
3 credit(s);
prereq 3107; Credit will not be granted if credit has been received for:
SPAN 3704H;
Instructor: Mack,Sara
Description: Objetivos del curso: Introducir al estudiante a los conceptos fundamentales en el campo de la sociolingüística a través del estudio de la lengua hispana en sus diversos contextos geográficos y sociales. Despues de una revision general de algunos conceptos basicos de la sociolingüística y la sociología del lenguaje, se analizaran en detalle los dialectos del espa?ol de America, incluyendo las influencias que han recibido de otras lenguas en contacto. Despues, se discutira la metodología sociolingüística y se examinaran estudios que demuestran la influencia de varios factores sociales en las comunidades hispanas, tales como sexo, edad y clase social. En la ultima parte del curso se examinaran los pronombres de tratamiento, las actitudes lingüísticas y el bilingüismo social en el mundo hispanico.

SPAN 3800 Film Studies in Spanish
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
prereq 3104W or 3105W;
Instructor: Forcinito,Ana
Description: Student may contact the instructor or department for information.

SPAN 3920 Topics in Spanish-American Literature: “La transmision de la palabra”
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
prereq 3104; Credit will not be granted if credit has been received for:
SPAN 3920H;
Instructor: O’Connell,Joanna
Description: “Emergent digital practices in the Spanish and Portuguese-speaking world: changing historical contexts, contemporary explorations? OR “La transmision de la palabra”: de las escrituras indigenas al Internet en America Latina” Course Description: In this course, students will link new developments in interactive Computer Mediated Communication (CMC) practices with the history of literacy and signification technologies? (precolonial and colonial indigenous writing, European alphabetic literacy, colonialism and nation-building periods, and contemporary mass media) in a broad history of globalization in the modern world. In the first half of the class, students will learn how to historicize contemporary CMC, while the second half will provide a laboratory for the study of emerging digital practices in the Spanish and Portuguese-speaking world (Europe, the Americas, Africa, the U.S). The class will be conducted in Spanish, and students will speak, read and write in Spanish in the class, including in their CMC learning environments.

SPAN 3920 Topics in Spanish-American Literature: Global Spanish Imperialism in the 16th-century
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
prereq 3104; Credit will not be granted if credit has been received for:
SPAN 3920H;
Instructor: Marrero-Fente,Raul A
Description: TITLE: Global Spanish Imperialism in the 16th-century Through an interdisciplinary approach, this course aims to provide a new interpretation of Spanish imperialism

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
during the 16th-century. The course, will examine the legacies of imperialist discourse as producer of the epistemic colonial difference. Furthermore, this course not only identifies the global nature of Spanish imperialism, but also analyses the indigenous accounts of resistance to the conquest and colonization. By focusing on the cultural production and practices of Spanish imperialism in Africa, the Americas, and Asia, the course argues that Colonial Latin American cannot be understood in isolation from other geographical regions, and from the transatlantic and global exchange from which it emerged. In other words, the cultural, economic, legal, political, and social interaction that occurred between the colonial territories was crucial in shaping the Spanish Empire in the early modern world. The course provides training in analytical thinking and cultural critique of imperialism and colonialism, bringing a global perspective to our curriculum. The course will focus on critical readings and discussion of cultural artifacts, maps, texts and documents of Africa, Asia, Latin America, and Spain. Studies will include material pertaining to the aural and visual production of the period, including European accounts of the conquest, and indigenous accounts of resistance to the conquest. Primary reading materials are in Spanish and critical readings are in English, and Spanish. All required readings are available as E-Book with the specific link.

SPAN 3972V Honors: Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, honors, dept consent ; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive;
Instructor: Ocampo,Francisco Antonio
Description: Student may contact the instructor or department for information.

SPAN 3972V Honors: Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, honors, dept consent ; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive;
Instructor: Spadaccini,Nicholas
Description: Student may contact the instructor or department for information.

SPAN 3972V Honors: Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, honors, dept consent ; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive;
Instructor: Ramos-Garcia,Luis A
Description: Student may contact the instructor or department for information.

SPAN 3972W Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent ; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive;
Instructor: Ocampo,Francisco Antonio
Description: Student may contact the instructor or department for information.

SPAN 3972W Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent ; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive;
Instructor: Spadaccini,Nicholas
Description: Student may contact the instructor or department for information.

SPAN 3972W Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent ; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive;
Instructor: Ramos-Garcia,Luis A
Description: Student may contact the instructor or department for information.

SPAN 4002 Beginning Spanish
2 credit(s); prereq Grad student;
Instructor: Powell,Kristin Ann
Description: Student may contact the instructor or department for information.

SPAN 4003 Intermediate Spanish
2 credit(s); prereq Grad student;
Instructor: Hernandez,Stephanie Leah
Description: Student may contact the instructor or department for information.

SPAN 4003 Intermediate Spanish
2 credit(s); prereq Grad student;
Instructor: Eliason,Robyn Ann
Description: Student may contact the instructor or department for information.

SPAN 4004 Intermediate Spanish
2 credit(s); prereq Grad student;
Instructor: Benegas,Michele Elizabeth
Description: Student may contact the instructor or department for information.

SPAN 4022 Alternate Second-Semester Spanish
2 credit(s); prereq Grad student;
Instructor: Lake,Elizabeth Christine
Description: Student may contact the instructor or department for information.

SPAN 4022 Alternate Second-Semester Spanish
2 credit(s); prereq Grad student;
Instructor: Thornberry,Philip Andrew
Description: Student may contact the instructor or department for information.

SPAN 5109 The Crisis of the Old Regime: Spanish Literature of the Enlightenment and Romanticism
3 credit(s); prereq three 3xxx or 5xxx literature courses in Spanish or instr consent;
Instructor: STAFF
Description: This class is an overview of 18th- and 19th-century Spanish culture from 1775 to 1900. It focuses on the evolution of literature and the arts during the periods of the Enlightenment, Romanticism, and Realism/Naturalism. We will examine a variety of texts from different genres (theatre, poetry, short story, novel) and place them in their literary and historical contexts, in an attempt to describe Spain's uneven transition from the Old Regime to modernity. The list of authors includes Ramon de la Cruz, Moratin, Mesonero Romanos, Larra, Duque de Rivas, Espronceda, Bequer, Galdos, Pardo Bazan, and Clarín.

SPAN 5525 Caribbean Literature: An Integral Approach
3 credit(s); prereq Three [3xxx or 5xxx] literature courses in Spanish or instr consent ;
Instructor: Hanneken,Jaime Elizabeth
Description: El Caribe (el lugar, el imaginario y el tropo) ha servido tanto de cuna como de margen para las grandes narrativas de la modernidad. Tras una lectura integra de textos hispanos, anglofonos y francofonos, indagaremos los discursos de revolucion (C.L.R. James, Alejo Carpentier), del surrealismo (Andre Breton, Alme Cesaire), del barroco (Jose Lezama Lima, Severo Sarduy, Gilles Deleuze) del anti-imperialismo y lo postcolonial (Roberto Fernandez Retamar, Frantz Fanon) y de lo postmoderno (Edouard Glissant, Antonio Benitez-Rojo), en su mutua construcción de las entidades Occidente y Caribe. ¿Dónde figura la sombra del Caribe--como esclavo, colonia, primitivo o hibrido--en la articulación de estos pasos de progreso? ¿Cómo son movilizadas las vicisitudes históricas y geográficas del Caribe en la emergencia de una conciencia regional, que si por un lado se advierte como sitio por excelencia de maravilla y de sincretismo cultural, por otro demanda una relectura del desarrollo del capital y el colonialismo como procesos de orden global? Examinaremos estos y otros temas.
Description: The focus of this course is on sociolinguistic variation and cross-dialectal diversity in different varieties of Spanish in Latin America and Spain. It includes a critical examination of the relationship between language use and social factors in the Spanish-speaking world. In addition, field methods appropriate for the investigation of sociolinguistic issues within Spanish-speaking communities will be analyzed. The two textbooks for this course, Silva-Corvalan's Sociolinguistica y pragmatica del espa?ol (2001) and Blas Arroyo's Sociolinguistica del espa?ol (2005), will be supplemented with primary research articles focusing on current issues in Spanish sociolinguistics.

Style: 40% Lecture, 30% Discussion, 20% Small Group Activities, 10% Student Presentation.

Grading: 45% reports/papers, 30% quizzes, 15% in-class presentation, 10% class participation.

SPAN 5920 Topics in Spanish-American Studies
3 credit(s); max credits 9, 3, repeats allowed; prereq 3104 or dept consent

Instructor: O'Connell, Joanna

Description: "La transmision de la palabra": de las escrituras indigenas al Internet en America Latina," OR "Emergent digital practices in the Spanish and Portuguese-speaking world: changing historical contexts, contemporary explorations? In this course, students will link new developments in interactive Computer Mediated Communication (CMC) practices (aka: cyberspace, digital world or WEB 2.0) with the history of ?literacy and signification technologies? (precolonial and colonial indigenous writing, European alphabetic literacy, colonialism and nation-building periods, and contemporary mass media) in a broad history of globalization in the modern world. In the first half of the class, we will review the history of literacy practices, indigenous and European, in the Americas, along with the important shifts in scholarship, literary and academic institutions, and the theorizing of writing, ethnicity, nationalism, etc. in the last 30 years as related to these transformations. In the second half, students will explore the very recent developments in emerging digital practices in general and in the Spanish and Portuguese-speaking world and develop a project exploring digital writing practices (Europe, the Americas, Africa, the U.S) in particular. The class will be conducted in Spanish. (Portuguese-speakers are encouraged to participate in Portuguese!).

Style: 25% Lecture, 25% Discussion, 25% Student Presentation, 25% Demonstration. All reading and writing will be conducted online through a Moodle site, and will explore various formats for digital writing in addition to more traditional writing exercises.

Grading: 50% special projects, 30% journal, 20% reflection paper. We will each create and maintain a class blog, read and comment on each other's blogs, and explore/use/create other kinds of the origins and development of the Ibero-Romance languages with emphasis on the evolution of Spanish, compared and contrasted with the other languages of the Iberian Peninsula. The general problem of linguistic change will be examined. Phonetic/phonological, and morphological issues will be studied in four stages: (1) Latin, (2) late Latin, (3) medieval Spanish, and (4) modern Spanish. Students taking this course must be familiar with articulatory phonetics terminology.

For those students that do not meet this condition, the following reading is strongly recommended prior to taking the course:

Style: 70% Lecture, 30% Discussion.

Grading: 30% mid exam, 30% final exam, 40% problem solving.

Exam Format: essay

SPAN 5970 Directed Readings
1-4 credit(s), max credits 9, 9, repeats allowed; prereq MA or PhD candidate, instr consent, dept consent, college consent;
Instructor: STAFF

Description:

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: O'Connell, Joanna

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Ferran, Ofelia

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Ramos-Garcia, Luis A

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Klee, Carol Anne

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Forcinito, Ana

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Face, Timothy L

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Forcinito, Ana

Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9, repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Hanneken, Jaime Elizabeth

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*Description:* Student may contact the instructor or department for information.

**SPAN 5990 Directed Research** 
1-4 credit(s); max credits 9, 9 repeats allowed; prereq instr consent, dept consent, college consent; 
**Instructor:** Marrero-Fente, Raul A  
**Description:** Student may contact the instructor or department for information.

**Spanish and Portuguese**  
34 Folwell Hall

**SPPT 3256 Latin American Cultural Discourse**  
3 credit(s); prereq SPAN 3015; Credit will not be granted if credit has been received for: SPPT 3256H;  
**Instructor:** Marrero-Fente, Raul A  
**Description:** An interdisciplinary approach to the study of the junctures of international law, human rights and the international justice system in the Americas, Lusophone Africa, Portugal, and Spain. The course will examine central issues in connection with international law and human rights through the study of the legal systems and political institutions in the Global Hispanic and Lusophone World. The course will involve a review of substantive law, as well as the study of actual cases in selected countries of the region. The class will introduce students to the legal systems of the nations and regions through the study of academic and specialized discourse pertaining to the humanities and the social sciences. Topics will be devoted to the human rights movement, the international law of human rights and the international justice system, specifically focused on selected human rights cases. The violation of human rights is a complex issue, which demands an interdisciplinary approach in order to achieve a better holistic understanding of the social conflicts in the Global Hispanic and Lusophone World. As thus, the course will examine the role of human rights organizations and locally based groups and their connections with international institutions, governments and non-governmental organizations. The course will also provide training in the history and substance of human rights, the Inter-American Human Rights Court and the Inter-American Human Rights Commission. The course will focus on critical readings and discussion of international law, and human rights law in Latin America. Requirements will include preparation of assigned readings, presentation of analytical and comprehensive tasks, class discussions, case studies, exams and a research project. Readings can include a selection of the legal doctrine of international human rights and constitutional law, documents by the human rights movement and materials from selected human rights cases.  
**Grading:** 40% reports/papers, 40% in-class presentation, 20% class participation.

**Speech-Language-Hearing Sciences**  
115 Shevlin Hall

**SLHS 1301W The Physics and Biology of Spoken Language**  
4 credit(s); Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;  
**Instructor:** STAFF  
**Description:** Introduction to the physics and biology of spoken language; the talker's production of sounds and words; transmission of sound; the listener's perception of what was heard; and computer analysis and synthesis of speech. Lectures will be supported by computer animations that show, in slow motion, rapidly changing dynamic events in acoustics, by on-line computer analysis of speech, and by laboratory sessions. Objectives: 1) Provide students who have a limited physics and biology background with an introduction to the physics and biology of spoken language, a field that is not only interesting, but of considerable social importance because of the dominant role that speech, language, and hearing play in society; and 2) Introduce students to recent technological advances associated with spoken language such as digital signal processing systems and speech recognition techniques. The trek through history will begin with Kratzenstein, who designed the first speech synthesizer in 1179, and end with an examination of the ways in which current research from disciplines such as physics, biology, psychology, linguistics, speech and hearing science, and so forth contributes to our understanding of the physics and biology of spoken language.  
**Style:** 60% Lecture, 40% Discussion.  
**Grading:** 50% mid exam, 25% final exam, 25% laboratory evaluation.  
**Exam Format:** multiple choice

**SLHS 1301W The Physics and Biology of Spoken Language**  
4 credit(s); Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;  
**Instructor:** Zhang, Yang  
**Description:** This 4-credit introductory course covers a wide range of interesting topics on spoken language and human communication with no prerequisites. These topics include historical perspectives and current research on speech production, animal communication systems, speech and musical acoustics, speech perception, speech development, cross-language comparisons, techniques used in speech analysis, machine recognition of speech, brain processing of speech information, brain imaging techniques, speech evolution, and implications for language-impaired populations. The trek through the history of speech technology will begin with Kratzenstein, who designed the first speech synthesizer in 1179, and end with an examination of the ways in which current research from disciplines such as physics, biology, psychology, linguistics, speech and hearing science, and so forth contributes to our understanding of the physics and biology of spoken language. Lectures will be supported by computer animations and online videos that show, in slow motion, rapidly changing
dynamic events in the articulatory system, the auditory system, and the brain. Hands-on laboratory sessions are led by experienced teaching assistants in the graduate program of the speech-language-hearing sciences. Most course materials, including answers to study guides and practice tests are available online through the WebVista system of the university. After completing this course, students should be able to 1) Analyze and identify basic acoustic features of speech, music, or other sounds. 2) Demonstrate knowledge about the relationship between the physical speech signal, the physiological activities that make the sound (production), and the psychological response to the signal (perception). 3) Demonstrate understanding of the complex nature of speech and language. 4) Show that they understand the basics of the development of speech and language, modern speech technology, and modern techniques of studying human information processing. 5) Work together as a team for lab projects and learn through empirical work. Course features: - Meets CLE req of Physical Science/Lab Core - Meets CLE req of Writing Intensive - No prerequisite required - Offered in Fall and Spring semesters

Style: 60% Lecture, 5% Film/Video, 20% Discussion, 5% Laboratory, 5% Small Group Activities, 5% Demonstration.

Grading: 50% mid exam, 25% final exam, 5% quizzes, 20% laboratory evaluation.

Exam Format: Multiple choice

SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior
3 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF

Description: This course will allow students with little mathematics background to learn basic quantitative methods as they apply to measuring human behavior. Introductory mathematical principles will be applied to measuring behaviors such as: rating personality and attention, evaluating infant speech perception, studying opinion polls, measuring voice and sound, and quantifying speech recognition through cochlear implants. Material will be presented using a mixture of lecture and hands-on activities in class. Mid-term and final examinations will focus on lecture material. In-class activities will be analyzed and written into short reports.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

Grading: 25% mid exam, 25% final exam, 50% reports/papers.

SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior
3 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: Glaze, Leslie

Description: This course allows students to develop quantitative mathematical and measurement skills by observing human behavior. Students will use basic statistics to measure, rate, rank, compare, table, plot, and analyze behavioral data. Using examples from opinion polls, tests of memory and learning measures, and perceptual judgments of speech, voice, hearing, and taste, students will collect and manipulate categorical, ordinal, and interval data. Lecture material will include examples from current social, political, economic, artistic, sports, and university events. Students will conduct hands-on in-class activities to acquire useful everyday calculations such as fuel economy, interest rates, percentage change, and estimating retirement savings. Throughout the course, students will use electronic student response systems to provide a highly interactive class experience. This course will allow students with little mathematics background to learn basic quantitative methods as they apply to measuring human behavior.

Style: 40% Lecture, 30% Discussion, 30% Laboratory.

Grading: 25% final exam, 20% reports/papers, 25% quizzes, 30% written homework.

Exam Format: short answer

SLHS 1401 Communication Differences and Disorders
3 credit(s); Credit will not be granted if credit has been received for: SLHS 3401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF

Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one’s daily life-at-home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes “normal” communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders and the second is to integrate laboratory and writing exercises. The third is to appreciate how the scientific method applies to questions related to spoken language. This course will expose students to a wide variety of techniques for measuring sound production and perception. Examples will be taken from a variety of languages, and from the speech of people with and without The course textbook is Keith Johnson’s Acoustic and Auditory Phonetics (second edition).

Style: 60% Lecture, 20% Discussion, 20% Laboratory.

Grading: 50% mid exam, 30% final exam, 20% reports/papers.

Exam Format: Problem solving, graph interpretation and creation, multiple choice, fill in the blank

SLHS 3305W Speech Science
3 credit(s); prereq [3301, 3302, 5303] or [Cdis 3301, Cdis 3302, Cdis 3304] or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Munson, Benjamin

Description: This is a course on the production and perception of speech. In the first part of the course, we will explore the relationship between the way sounds are produced, and their resulting acoustic and auditory characteristics. In the second part of the course, we will examine how these sounds are perceived. There are three over-arching themes in this course. The first is to use experimental techniques to understand how sounds are represented cognitively. The second is to integrate laboratory and writing exercises. The third is to appreciate how the scientific method applies to questions related to spoken language. This course will expose students to a wide variety of techniques for measuring sound production and perception. Examples will be taken from a variety of languages, and from the speech of people with and without The course textbook is Keith Johnson’s Acoustic and Auditory Phonetics (second edition).

Style: 60% Lecture, 20% Discussion, 20% Laboratory.

Grading: 50% mid exam, 30% final exam, 20% reports/papers.

Exam Format: Problem solving, graph interpretation and creation, multiple choice, fill in the blank

SLHS 3305W Speech Science
3 credit(s); prereq [3301, 3302, 5303] or [Cdis 3301, Cdis 3302, Cdis 3304] or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Sasisekaran, Jayanthi

Description: This is a course on the production and perception of speech. In the first part of the course, we will explore the relationship between the way sounds are produced, and their resulting acoustic and auditory characteristics. In the second part of the course, we will examine how these sounds are perceived. There are three over-arching themes in this course. The first is to use experimental techniques to understand how sounds are represented cognitively. The second is to integrate laboratory and writing exercises. The third is to appreciate how the scientific method applies to questions related to spoken language. This course will expose students to a wide variety of techniques for measuring sound production and perception. Examples will be taken from a variety of languages, and from the speech of people with and without The course textbook is Keith Johnson’s Acoustic and Auditory Phonetics (second edition).

Style: 60% Lecture, 20% Discussion, 20% Laboratory.
SLHS 3306 Hearing Science  
3 credit(s); prereq [3301, 3302] or [CDs 3301, CDs 3302] or instr consent;  
Instructor: Schlauch, Robert S  
Description: Student may contact the instructor or department for information.

SLHS 3401 Communication Differences and Disorders  
3 credit(s); Credit will not be granted if credit has been received for: SLHS 1401; Meets CLE req of Cultural Diversity; Theme; meets CLE req of Social Science Core;  
Instructor: STAFF  
Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life-at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Carney, Arlene Earley  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Schlauch, Robert S  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Windsor, Jennifer  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Reichle, Joe E  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Kennedy, Mary R T  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Munson, Benjamin  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Munson, Benjamin  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Munson, Benjamin  
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis  
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq See dir of undergrad studies for [thesis adviser, forms];  
Instructor: Munson, Benjamin  
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research  
1-12 credit(s); max credits 24; prereq Undergrad doing research;  
Instructor: Carney, Arlene Earley  
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research  
1-12 credit(s); max credits 24; prereq Undergrad doing research;  
Instructor: Angerman, Sarah Kay  
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research  
1-12 credit(s); max credits 24; prereq Undergrad doing research;  
Instructor: Deruiter, Mark  
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research  
1-12 credit(s); max credits 24; prereq Undergrad doing research;  
Instructor: Schlauch, Robert S  
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research  
1-12 credit(s); max credits 24; prereq Undergrad doing research;  
Instructor: Windsor, Jennifer  
Description: Student may contact the instructor or department for information.
SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Reichle, Joe E
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Kennedy, Mary R T
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Munson, Benjamin
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Watson, Peter J
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Kohner, Kathryn
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Zhang, Yang
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Rao, Aparna
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prereq Undergrad doing research;
Instructor: Sasisekaran, Jayanthi
Description: Student may contact the instructor or department for information.

SLHS 4502 Atypical Speech and Language
3 credit(s);
Instructor: Watson, Peter J
Description: Student may contact the instructor or department for information.

SLHS 4801 Hearing Measurement and Disorders
3 credit(s); prereq [3301, 3302] or [CDis 3301, CDis 3302] or instr consent;
Instructor: STAFF
Description: This course will provide a basic orientation to audiolingual assessment and disorders of the auditory system. The course is geared towards undergraduate students majoring in Speech-Language-Hearing Sciences. The anatomy of the ear and the scope of practice in audiology will be reviewed. Emphasis will be placed on the tests used to assess hearing, including pure-tone audiometry and masking, speech audiometry, immittance, electrophysiological tests, pure-tone screening, and pediatric assessment. Various disorders of the outer, middle, and inner ear will be described. Case management for clients with hearing loss will also be discussed. Students will obtain hands-on experience with otoscopic examination, pure tone audiometry, tympanometry, and hearing screening.
Style: 80% Lecture, 10% Discussion. in-class activities
Grading: 50% mid exam, 30% final exam, 10% quizzes, 10% laboratory evaluation.
Exam Format: Multiple choice, completion, and short answer questions

SLHS 4801 Hearing Measurement and Disorders
3 credit(s); prereq [3301, 3302] or [CDis 3301, CDis 3302] or instr consent;
Instructor: Poluha, Patricia Catherine
Description: This course will begin with a review of the sensory function of hearing, anatomy of the ear and disorders of the ear. The major focus of the course is audiological assessment and interpretation. The scope of practice in audiology will be reviewed. Emphasis will be placed on the tests used to assess hearing, including pure-tone audiometry, speech audiometry, immittance, electrophysiological tests, pure-tone screening, and pediatric assessment. Students will receive hands-on experience with otoscopic examination, pure-tone audiometry, tympanometry, and hearing screening. The course is geared towards undergraduate students majoring in Speech-Language-Hearing Sciences.
Style: 65% Lecture, 35% Laboratory.
Grading: 25% mid exam, 25% final exam, 25% quizzes, 25% laboratory evaluation.

SLHS 5503 Dysphagia and Motor Speech Disorders
3 credit(s); prereq [3305, 4301] or [CDis 3305, CDis 4301] or instr consent;
Instructor: Watson, Peter J
Description: This course focuses on the evaluation and management of swallowing disorders and motor speech disorders across the life span. You will learn about the physiology and neural control of normal swallowing, the theories of swallowing, and the causes of swallowing disorders. You will obtain hands-on experience performing a clinical swallow evaluation and you will become familiar with other diagnostic procedures. You will learn how to establish appropriate interventions for individuals with swallowing disorders. In the second part of the course you will learn how to differentially diagnose the dysarthrias and apraxia of speech. You will learn how to evaluate and plan intervention for individuals with motor speech disorders.
Style: 45% Lecture, 20% Film/Video, 5% Small Group Activities, 15% Demonstration, 5% Field Trips, 10% Guest Speakers.

SLHS 5503 Dysphagia and Motor Speech Disorders
3 credit(s); prereq [3305, 4301] or [CDis 3305, CDis 4301] or instr consent;
Instructor: Reichele, Joe E
Description: This course will provide a basic orientation to audiolingual assessment and disorders of the auditory system. The course is geared towards undergraduate students majoring in Speech-Language-Hearing Sciences. The anatomy of the ear and the scope of practice in audiology will be reviewed. Emphasis will be placed on the tests used to assess hearing, including pure-tone audiometry and masking, speech audiometry, immittance, electrophysiological tests, pure-tone screening, and pediatric assessment. Various disorders of the outer, middle, and inner ear will be described. Case management for clients with hearing loss will also be discussed. Students will obtain hands-on experience with otoscopic examination, pure tone audiometry, tympanometry, and hearing screening.
Style: 80% Lecture, 10% Discussion. in-class activities
Grading: 50% mid exam, 30% final exam, 10% quizzes, 10% laboratory evaluation.
Exam Format: Multiple choice, completion, and short answer questions

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
speech disorders.

**Style:** 45% Lecture, 20% Film/Video, 5% Small Group Activities,
15% Demonstration, 5% Field Trips, 10% Guest Speakers.

**SLHS 5605 Language and Cognitive Disorders in Adults**
3 credit(s); prereq [3302, 4301] or [CDis 3302, CDis 4301] or
instr consent;
Instructor: Kennedy, Mary R T
**Description:** Student may contact the instructor or department
for information.

**SLHS 5606 Introduction to Augmentative and Alternative
Communication**
3 credit(s);
Instructor: Reichle, Joe E
**Description:** One purpose of this course is to provide an
overview of the range of augmentative and alternative
communication systems available for persons with
developmental and acquired disabilities. A second purpose is to
teach participants how to implement assessment and
intervention procedures to establish gestural and graphic mode
communication systems. Many of the examples used in teaching
this course address the communicative needs of school-aged
populations who experience moderate/severe developmental
disabilities. However, most of the applications will be relevant to
augmentative communication applications for individuals
acquired disabilities. Although not a primary objective of this
course, you will be exposed to the features of several electronic
communication aids. At the conclusion of this course, you should
have obtained the following competencies: 1) an understanding of
the minimal requirements of an acceptable augmentative or
alternative communication system. 2) familiarity with the
advantages and disadvantages of graphic and gestural
communication modes. 3) a working knowledge of direct select
and scanning selection techniques used in accessing a graphic
mode communication system. 4) an understanding of
assessment strategies designed to match learners with an
augmentative communication system(s). 5) an understanding of
the criteria for selecting initial vocabulary for an augmentative
system user.

**Style:** 70% Lecture, 15% Discussion. using computer
simulations
**Grading:** 75% quizzes, 25% problem solving.

**Exam Format:** short answer/essay

**SLHS 5608 Clinical Issues in Bilingualism and Cultural
Diversity**
A-F only, 3 credit(s); prereq 3303 or equiv or instr consent

**Instructor:** Kohnert, Kathryn

**Description:** COURSE TITLE IS: CLINICAL ISSUES IN
BILINGUALISM AND CULTURAL DIVERSITY. This course will
survey topics in cultural diversity, bilingualism and second
language learning in typical children and adults as well as in
those with developmental and acquired communication
impairments. A general course objective is to increase
understanding of basic and applied issues across a broad range of
culturally and linguistically diverse populations.

**SLHS 5804 Cochlear Implants**
A-F only, 3 credit(s); prereq [4802, 5801, 5802] or [CDis 4802,
CDis 5801, CDis 5802] or instr consent

**Instructor:** Rao, Aparna

**Description:** Student may contact the instructor or department
for information.

**SLHS 5810 Laboratory Module in Audiology**
1-2 credit(s), max credits 5, 5 repeats allowed; prereq 4801
or CDIs 4801 or instr consent

**Instructor:** Sullivan, Michael Joseph

**Description:** Student may contact the instructor or department
for information.

**SLHS 5820 Clinical Research and Practice: Grand Rounds**
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed;
prereq 4801 or CDIs 4801 or equiv or instr consent

**Instructor:** Schlauch, Robert S

**Description:** Student may contact the instructor or department
for information.

**SLHS 5993 Directed Study**
1-12 credit(s), max credits 18, 18 repeats allowed; prereq
instructor consent;
**Instructor:** STAFF

**Description:** Student may contact the instructor or department
for information.

**SLHS 8340 Proseminar in Speech-Language-Hearing Sciences**
S-N only, 1 credit(s), max credits 10, 10 repeats allowed;
prereq intended for students in Department of
Speech-Language-Hearing Sciences;
**Instructor:** Nelson, Peggy B

**Description:** Student may contact the instructor or department
for information.

**SLHS 8630 Seminar: Language**
3 credit(s), max credits 12, 4 repeats allowed;
**Instructor:** Kohnert, Kathryn

**Description:** Student may contact the instructor or department
for information.

**SLHS 8720 Clinical Education in Speech-Language Pathology**
S-N only, 1-8 credit(s), max credits 24, 24 repeats allowed;
prereq Grad CDis major, adviser, DGS consent;
**Instructor:** Deruiter, Mark

**Description:** Student may contact the instructor or department
for information.

**SLHS 8801 Audiologic Assessment II**
3 credit(s); prereq 5801 or CDIs 5801 or instr consent;
**Instructor:** Schlauch, Robert S

**Description:** Student may contact the instructor or department
for information.

**SLHS 8802 Hearing Aids II**
3 credit(s); prereq 5802 or CDIs 5802 or instr consent;
**Instructor:** Nelson, Peggy B

**Description:** Student may contact the instructor or department
for information.

**SLHS 8820 Clinical Education in Audiology**
S-N only, 1-8 credit(s), max credits 24, 24 repeats allowed;
prereq Grad CDis major;
**Instructor:** Deruiter, Mark

**Description:** Student may contact the instructor or department
for information.

**SLHS 8840 Audiology Externship**
S-N only, 1-7 credit(s), max credits 7, 3 repeats allowed;
prereq [8802, 8807] or [CDIs 8802, CDIs 8807];
**Instructor:** Deruiter, Mark

**Description:** Student may contact the instructor or department
for information.

**SLHS 8994 Directed Research**
1-12 credit(s), max credits 18, 18 repeats allowed; prereq
instructor consent;
**Instructor:** Carney, Arlene Earley

**Description:** Student may contact the instructor or department
for information.

**SLHS 8994 Directed Research**
1-12 credit(s), max credits 18, 18 repeats allowed; prereq
instructor consent;
**Instructor:** Angerman, Sarah Kay

**Description:** Student may contact the instructor or department
for information.

**SLHS 8994 Directed Research**
1-12 credit(s), max credits 18, 18 repeats allowed; prereq
instructor consent;
**Instructor:** Deruiter, Mark
Description: This course is designed as an introductory course for students who have an interest in, or have been admitted into, the Sport Management program. It is an assumption of the instructor that students have a strong interest in sport and athletics, and that the career aspirations of students are driven by this industry. The primary emphasis is to introduce students to the broad range of issues and challenges that pertain to the business of sport, while also providing a foundation to those interested in pursuing a career in any given area of sport. Students will be expected to complete all assigned text readings on time, come to class prepared to discuss the current topic, and follow current events and news in the sport industry. Also, industry professionals will be invited to class to provide their personal perspective of the industry and share their individual stories.

SMGT 3111 Sports Facility and Event Management
A-F only, 3 credit(s); prereq SMGT major or instr consent;
Instructor: Brownlee, Eric A
Description: Aspects of managing sport facilities/events.
Conceptualization of sports events. Event management planning
process, budgeting, site selection, booking, ticketing,
sponsorship.

SMGT 3143 Organization and Management of Sport
A-F only, 3 credit(s); prereq SMGT major;
Instructor: Houghton, Emily Jane
Description: Designed to focus on the principles, policies, and
procedures involved in the administration and management of
sports programs at the interscholastic and intercollegiate levels.

SMGT 3421 Business of Sport
A-F only, 3 credit(s); prereq SMGT or kin or rec major or
instr consent;
Instructor: Allison JD, Rayla
Description: Financial aspects of sport. Revenue producing
strategies, budget preparation/analysis, controlling expenses.
Tax support, municipal bonds, ticket sales, concessions,
merchandising. Media, fund raising.

SMGT 3501 Sport in a Diverse Society
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity
Theme; meets CLE req of Social Science Core;
Instructor: Buyase, Jo Ann
Description: There can be no question that sport is currently a
prevalent social institution in North America. Clearly, sport and
patterns of physical activity are symbolic of the larger
socio-cultural order. This course is designed to examine the
pervasive and significant relationships between the social
constructions of sport and physical activity to contemporary
social institutions such as politics, religion, economics, education
and mass media. It will introduce students to a broad perspective
of social issues related to sport. In addition it will afford students
the opportunity to critically explore and increase their
understanding of how specific social categories such as age,
gender, race, sex, social class, religion, sexual orientation and
physical disabilities, intersect to influence participation and
experiences of individuals within sport and physical activity
contexts. In short, students will explore the `deeper game?
through which sports and physical activities become an integral
part of the social and cultural worlds in which we live. Sport
sociology is located within the discipline of social science and
this course is designed to meet the criteria for the liberal
education social science core (SSC). In this course students will
be introduced to the ways of knowing within the social science
discipline. Students will learn about social science including
theories, the methods by which social scientists collect, analyze
and interpret data, and how social scientists interpret and explain
human behavior within sport and physical activity contexts.
Students will develop critical thinking and reflection skills,
broaden their ways of knowing and thinking about what they
know, and have ample opportunity to hone discussion and
writing skills.
Style: 30% Lecture, 40% Discussion, 5% Student Presentation,
10% Guest Speakers, 15% Service Learning.
Grading: 25% mid exam, 25% final exam, 35% reports/papers,
SMGT 3501 Sport in a Diverse Society
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: LaVoi, Nicole Marie
Description: Relationship between sport and contemporary social institutions. Groups/individuals who have historically been marginalized or excluded from sport participation. Race, sex, social class, sexual orientation, physical (dis)abilities.

SMGT 3501 Sport in a Diverse Society
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Bhalla, Jennifer Anita
Description: There can be no question that sport is currently a prevalent social institution in North America. Clearly, sport and patterns of physical activity are symbolic of the larger socio-cultural order. This course is designed to examine the pervasive and significant relationships between the social constructions of sport and physical activity to contemporary social institutions such as politics, religion, economics, education and mass media. It will introduce students to a broad perspective of social issues related to sport. In addition it will afford students the opportunity to critically explore and increase their understanding of how specific social categories such as age, gender, race, sex, social class, religion, sexual orientation and physical disabilities, intersect to influence participation and experiences of individuals within sport and physical activity contexts. In short, students will explore the ‘deeper game’ through which sports and physical activities become an integral part of the social and cultural worlds in which we live. Sport sociology is located within the discipline of social science and this course is designed to meet the criteria for the liberal education social science core (SSci). In this course students will be introduced to the ways of knowing within the social science discipline. Students will learn about sport sociology through theories, the methods by which social scientists collect, analyze and interpret data, and how social scientists interpret and explain human behavior within sport and physical activity contexts.
Students will develop critical thinking and reflection skills, broaden their ways of knowing and thinking about what they know, and have ample opportunity to hone discussion and writing skills.

SMGT 3601 Ethics and Values in Sport
A-F only, 2 credit(s); prereq SMGT major;
Instructor: Buyss, Jo Ann
Description: In sport management we have many opportunities to ask questions regarding acts and decisions as right or wrong. What does it mean to act in a way that characterizes good behavior? How do we develop morally? What are our personal values and moral orientations? Does sport perpetuate violence in society? What is moral and ethical conduct in sport management? What is meant by the term social responsibility? Do professional sport team owners have a responsibility to the community? How do we make decisions that are good, right and authentic? These questions and other ethical issues in sport will be explored from historical, philosophical, and sociological perspectives. Students will learn about moral development, ethical concepts and theories, and they will have opportunities to apply ethical decision making skills to case studies in sport.
Style: 50% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 40% mid exam, 40% reports/papers, 10% attendance.

SMGT 3621 Applied Sport Psychology
A-F only, 2 credit(s); prereq SMGT or kin or rec major or instr consent;
Instructor: Winges, Jim
Description: Psychological theories/techniques as they apply to sport performance and personal growth of sport participants.

SMGT 3631 Sport Marketing
A-F only, 3 credit(s); prereq SMGT major or instr consent;
Instructor: Brownlee, Eric A
Description: Fundamental theories/issues in sport marketing, grounded in traditional marketing principles. Unique applications to sport business industry.

STAT 1001 Introduction to the Ideas of Statistics
4 credit(s); prereq High school algebra; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: Introduction to the Ideas of Statistics is a course that teaches the basic ideas of statistics without getting bogged down in equations, Greek letters, and complicated calculations. Conceptual issues, which make the difference between valid and bogus uses of statistics, are faced squarely and not "dumbed down" but the mathematics is kept simple and explained in plain English, graphs, and diagrams. Topics covered are design of experiments (what makes a valid scientific experiment), descriptive statistics (histograms, the bell-shaped curve, and all that), regression and correlation, probability and the law of averages, chance variability of statistical estimates, the accuracy...
of polls and sample surveys, and the use of data as evidence in testing and plausibility of claims made about populations.

**Style:** 75% Lecture, 25% Laboratory.

**Grading:** 40% mid exam, 40% final exam, 20% problem solving.

**Exam Format:** essay, problem solving and multiple choice

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**STAT 3011 Introduction to Statistical Analysis**

4 credit(s); prereq Two yrs high school math; Credit will not be granted if credit has been received for: STAT 5021; Meets CLE req of Mathematical Thinking Core;

**Instructor:** STAFF

**Description:** This course provides an introduction to basic methods of statistics, including descriptive statistics, elementary probability ideas and random variables, distributions of sample averages. One and two sample t-procedures, simple linear regression, basic ANOVA. The target audience is undergraduates from all majors. Stat 3011 and Stat 3021 are both entry courses into the statistics curriculum for undergraduates.

**Exam Format:** problem solving

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**STAT 3021 Introduction to Probability and Statistics**

3 credit(s); prereq Math 1272;

**Instructor:** STAFF

**Description:** This course will start with an introduction of probability, including interpretations of probability, axioms of probability, and the use of counting methods for solving probability problems, conditional probability, Bayes theorem, independence, random variables and distributions, expected values, the binomial, Poisson, normal and other distributions, the law of large numbers, and the central limit theorem. Then we will cover applications of the above to the theory of statistical inference, including estimation, confidence intervals, and hypothesis tests.

**Style:** 100% Lecture.

**Grading:** 45% mid exam, 45% final exam, 10% problem solving.

**Exam Format:** Problem solving

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**STAT 3022 Data Analysis**

4 credit(s); prereq 3011 or 3021;

**Instructor:** STAFF

**Description:** Further topics in regression and ANOVA; non-parametric methods; model selection and verification; writing statistical reports; use of statistical software; additional selected topics.

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**STAT 4102 Theory of Statistics II**

4 credit(s); prereq 4101; Credit will not be granted if credit has been received for: STAT 5102;

**Instructor:** Okabayashi,Sai

**Description:** Student may contact the instructor or department for information.

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**STAT 4893W Senior Paper**

1 credit(s); prereq Stat major; Meets CLE req of Writing Intensive;

**Instructor:** STAFF

**Description:** STAT 4893W is a requirement for a BA in Statistics in CLA. It also fulfills the University requirement of a Writing Intensive course in the major. It can be satisfied in several ways including but not limited to directed study culminating in a paper on a specialized area of Statistics (most common choice), carrying out a "case study" involving data collection and analysis and a report, and writing and documenting a computer program to implement a nontrivial statistical technique. Students should enroll in any semester of their Senior year. If work is unfinished at semester end (as frequently happens), an incomplete (I) is usually granted. The topic of the paper should be chosen in consultation with a Statistics faculty supervisor. Frequently this faculty member will be the student's instructor in STAT 5xxx, and the paper will build from the course. See http://www.stat.umn.edu/ugrad/stat4893.html for more information.

**Grading:** 100% reports/papers.

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**STAT 5021 Statistical Analysis**

4 credit(s); prereq credit will not be granted if credit received for: 3011; College algebra or instr consent; Credit will not be granted if credit has been received for: STAT 3011;

**Instructor:** STAFF

**Description:** The primary audience for this course is graduate students in non-statistics- major programs who need statistical competence. Typical needs would be the analysis of data using common statistical methods, the design of single-factor experiments and the ability to read journal articles and assess their statistical content critically. After completion of the course, students are able to carry out one-and-two sample tests, set up confidence intervals for means, proportions and differences in means and proportions. They can fit single-predictor regressions and one-way analysis of variance, along with checks of the model assumptions underlying these methods. The course includes a brief non-calculus introduction to probability theory and statistical distributions.

**Style:** 50% Lecture, 25% Discussion, 25% Laboratory.

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**STAT 5102 Theory of Statistics II**

4 credit(s); prereq 5101 or Math 5651; Credit will not be granted if credit has been received for: STAT 4102;

**Instructor:** Geyer,Charles J

**Description:** Student may contact the instructor or department for information.

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**STAT 5201 Sampling Methodology in Finite Populations**

3 credit(s); prereq 3011 or 3021 or 5021 or instr consent;

**Instructor:** Meeden,Glen Dale

**Description:** An introduction to finite population sampling covering simple random sampling, stratified sampling, cluster sampling, unequal probability sampling and systematic sampling. Ratio estimators, regression estimators and model based estimation will be discussed.

**Style:** 100% Lecture.

**Grading:** 40% mid exam, 40% final exam, 20% written homework.

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Description: Student may contact the instructor or department for information.

STAT 5303 Designing Experiments
4 credit(s); prereq 3022 or 4102 or 5021 or 5102 or instr consent;
Instructor: Corbet, John Paul
Description: Student may contact the instructor or department for information.

STAT 5401 Applied Multivariate Methods
3 credit(s); prereq 5302 or 8102 or instr consent;
Instructor: Chatterjee, Singdhansu Bhusan
Description: Student may contact the instructor or department for information.

STAT 5993 Tutorial
1-6 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: STAFF
Description: Students may contact the department for information.

STAT 8052 Applied Statistical Methods 2: Design of Experiments and Mixed-Effects Modeling
A-F only, 4 credit(s); prereq 8051 or instr consent;
Instructor: Grund, Birgit
Description: Style: 85% Lecture, 15% Laboratory.
Grading: 40% mid exam, 40% final exam, 20% written homework.
Exam Format: in-class

STAT 8052 Applied Statistical Methods 2: Design of Experiments and Mixed-Effects Modeling
A-F only, 4 credit(s); prereq 8051 or instr consent;
Instructor: Wei, Xiaojiao
Description: Student may contact the instructor or department for information.

STAT 8054 Statistical Methods 4: Advanced Statistical Computing
A-F only, 2 credit(s); prereq 8053 or instr consent;
Instructor: Geyer, Charles J
Description: Student may contact the instructor or department for information.

STAT 8102 Theory of Statistics 2
4 credit(s); prereq 8101, Statistics graduate major or instr consent;
Instructor: Wang, Lan
Description: Student may contact the instructor or department for information.

STAT 8112 Mathematical Statistics II
3 credit(s); prereq 8111;
Instructor: Jones, Galin
Description: Student may contact the instructor or department for information.

STAT 8112 Mathematical Statistics II
3 credit(s); prereq 8111;
Instructor: Jones, Galin
Description: Student may contact the instructor or department for information.

STAT 8511 Time Series Analysis
3 credit(s); prereq 5102 or 8111 or instr consent;
Instructor: Yang, Yuhong
Description: Student may contact the instructor or department for information.

STAT 8801 Statistical Consulting
S-N only, 2-3 credit(s), max credits 3, 1 repeat allowed; prereq Grad stat major or instr consent;
Instructor: Rendahl, Aaron K
Description: Student may contact the instructor or department for information.

STAT 8913 Literature Seminar
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;
prereq Statistics grad major or instr consent;
Instructor: Meeden, Glen Dale
Description: Student may contact the instructor or department for information.

STAT 8932 Advanced Topics in Statistics
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Zou, Hui
Description: Student may contact the instructor or department for information.

SCMC 1201 Introduction to Cinema and Media Culture
4 credit(s); prereq credit will not be granted if credit received for: CSCL 1201; Credit will not be granted if credit has been received for: CSCL 1201; Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: The emergence of what is variously referred to as the "Information Age" and "Society of the Spectacle" has made it necessary for us to think critically about the media. Since visual media have the most pervasive influence on our everyday lives, this course will focus on how forms such as advertising, film, and television work, affect perception, and structure meaning. We will read some of the most important theoretical and historical texts that provide insight into our "ways of seeing." No prior exposure to media theory is expected, but although this is an introductory class, students will be expected to read and work through challenging material. We will read a variety of critics who have attempted to analyze cinema and media culture and we will also begin to develop a vocabulary for formal visual analysis.

SCMC 3001W History of Cinema and Media Culture
4 credit(s); Meets CLE req of Writing Intensive;
Instructor: Groening, Stephen F
Description: The principle focus of this course is the study of media history and its methods. In addition to a basic history of film culture in the United States, we will examine the emergence of widescreen cinema, home theater systems, digital television, and cellular phones. Special attention will be paid to issues of spectatorship, screen size, and continuity and change in technological developments in film and visual media.

SCMC 3202 Intermediate Digital Filmmaking
A-F only, 4 credit(s); prereq 3201 or instr consent;
Instructor: Horan Jr, John Joseph Patrick
Description: This course expands on the introduction to the aesthetic and technical aspects of digital video production learned in SCMC 3201. Each student will design, shoot, and edit several short projects. You will be introduced to the role of computers in the digital non-linear post-production environment. You will be required to attend all screenings and critiques to pass this course successfully. You will be responsible for the cost of videocassette. All equipment required for production assignments will be provided.

SCMC 5002 Advanced Film Analysis
A-F only, 4 credit(s);
Instructor: Johnson, Kjetil Wayne
Description: SCMC 5002 emphasizes the advanced application of textual analysis to the reading of a film. In this course, students will work individually and collaboratively to discern and interpret all component aural/visual elements of particular films viewed as complex systems of signification and the production of meaning: examinations of mise-en-scene, montage, music, narrative, performance, and intertextuality (even inter-mediality) will all come into play. On a supplementary path, we will also pay heed to key historical and contemporary trends, modes, and methods of film analysis, including classical aesthetic criticism.
Studies of Science and Technology
746 Heller Hall

SST 8300 Seminar: The Biological and Biomedical Sciences
3 credit(s); prerequisite HSCI 8111 or [Phil 8601 or Phil 8602 or Phil 8605] or instructor consent;
Instructor: Waters, C. Kenneth
Description: Student may contact the instructor or department for information.

Surgery
11-100 Phillips Wangensteen Bldg (Box 195)

SURG 8293 Applied Statistics
S-N only, 1 credit(s); prerequisite Grad student in [surgery or experimental surgery or health sciences] or;
Instructor: Gruessner, Angelika C
Description: Student may contact the instructor or department for information.

Sustainability Studies
190 Coffey Hall

SUST 3003 Sustainable People, Sustainable Planet
3 credit(s); prerequisite Soph or Jr or Sr; Credit will not be granted if credit has been received for: GLOS 3304; meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;
Instructor: Pennington, Derric Neville
Description: Sustainability recognizes that economic growth, social equity, and environmental integrity are all worthy goals, but that these goals compete so that it is impossible to maximize all three of them concurrently. Some objectives of sustainability are therefore realized at the cost of other equally valid objectives. Sustainable People, Sustainable Planet provides an historical, ethical and technical overview of various models for understanding sustainability. It also demonstrates, by utilizing a variety of real-world case studies, the conflicts and trade-offs that occur from trying to put sustainability into practice. The course is intended for sophomores and above who are interested in completing the Sustainability Studies Minor, and for all students who are interested in the subject and wish to satisfy the University's liberal education themes for Environment and Citizenship/Public Ethics. The course should be considered "reading intensive" but it has no prerequisites.
Style: 50% Lecture, 50% Discussion
Grading: 67% reports/papers, 23% special projects, 10% class participation.

SUST 4004 Sustainable Communities
A-F only, 3 credit(s); prerequisite [3003 or GLOS 3304, [jr or sr] in sustainability studies minor] or instructor consent;
Instructor: Roos, Stephan John
Description: Learn a systems approach to addressing a community's environmental, social and economic sustainability. Readings explore systems thinking and case studies of communities striving to become more sustainable. Through a team project, you will practice integrating your own academic knowledge and lived experience with that of people from diverse disciplines and professions to address complex sustainability challenges. In 2009, team projects will focus on the complex community of the Twin Cities campus, a living laboratory of sustainability challenges faced by many communities. Your interdisciplinary team will integrate approaches from design, natural and social sciences to address a specific problem related to buildings, transportation, food, waste or energy on the campus. Class material will be presented through a combination of lecture and discussion and frequent participatory activities, stressing team collaboration and consulting with professional staff from University Services. Assignments include individual writing and team work. This is a core course for the Sustainability Studies Minor. PREREQUISITE: SUST3003 or ESPM3003/GLOS 3304.
Style: 30% Lecture, 34% Discussion, 30% Small Group Activities, 6% Student Presentation. Teams will have class time to work on projects but might need a few meetings outside of class.
Grading: 30% reports/papers, 15% written homework, 10% reflection paper, 15% in-class presentation, 20% class participation, 10% other evaluation. Reports/papers: team project proposal and report. Other evaluation: community engagement activity.

Sustainable Agricultural Systems
411 Borlaff Hall

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SAGR 8020 Field Experience in Sustainable Agriculture
S-N only, 1-4 credit(s), max credits 3, 1 repeat allowed; prereq Coursework in biological or social sciences that provides intro to ag practices or issues; Instructor: Jordan, Nicholas Royal
Description: Student may contact the instructor or department for information.

Swahili
808 Social Sciences Tower

SWAH 1222 Beginning Swahili II
5 credit(s); prereq 1221 or equiv; Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

SWAH 3226 Fourth Semester Swahili
5 credit(s); prereq 3225 or equiv; Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

SWAH 4222 Beginning Swahili II
2 credit(s); prereq Grad student; Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

SWAH 4226 Intermediate Swahili II
2 credit(s); prereq 4225 or equiv, grad student; Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

Swedish
205 Folwell Hall

SWED 1001 Beginning Swedish
5 credit(s); Credit will not be granted if credit has been received for: SWED 4001; Instructor: STAFF
Description: This is the first course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Swedish. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. See the description for Swed 4001 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.
Grading: 100% other evaluation. 50% reading/writing, 50% oral/aural
Exam Format: structured exercises in all 4 modalities and grammar, pronunciation, vocabulary and culture

SWED 1002 Beginning Swedish
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: SWED 4002; Instructor: STAFF
Description: This course continues the beginning sequence in Swedish, which covers four language skills: listening, speaking, reading and writing. Students will also gain knowledge of Swedish culture through various means, including audio-visual aids available in the language laboratory. Lecture, class discussions and classroom exercises will be conducted in Swedish. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. You may register for this course under the number Swed 4002 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

SWED 4002 Beginning Swedish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: SWED 1002; Instructor: STAFF
Description: This course continues the beginning sequence in Swedish, which covers four language skills: listening, speaking, reading and writing. Students will also gain knowledge of Swedish culture through various means, including audio-visual aids available in the language laboratory. Lecture, class discussions and classroom exercises will be conducted in Swedish. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. You may register for this course under the number Swed 4002 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

SWED 4004 Intermediate Swedish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: SWED 1004; Instructor: STAFF
Description: This course continues the presentation of language skills--speaking, writing, listening and reading begun in Swedish 1001/1002. Students will review, examine and develop these skills through a content-based curriculum. Students will be introduced to a variety of Swedish texts--stories, songs, newspaper articles, video and Internet resources. The review of basic points of Swedish grammar with an emphasis on sentence structure and word order will enable students to improve their writing skills in connection with process-oriented writing assignments. Vocabulary building will be supported by a rich array of texts that the students will be reading during their second year. Speaking and listening will be practiced in role play activities involving representative social situations. The interaction will familiarize students with the different levels of formality and intimacy used in conversational settings, and the codes and mythologies unique to Swedish culture. You may register for this course under the number Swed 4004 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.
1001/1002. Students will review, examine and develop these skills through a content-based curriculum. Students will be introduced to a variety of Swedish texts--stories, songs, newspaper articles, video and Internet resources. The review of basic points of Swedish grammar with an emphasis on sentence structure and word order will enable students to improve their writing skills in connection with process-oriented writing assignments. Vocabulary building will be supported by a rich array of texts that the students will be reading during their second year. Speaking and listening will be practiced in role play activities involving representative social situations. The interaction will familiarize students with the different levels of formality and intimacy used in conversational settings, and the codes and mythologies unique to Swedish culture. You may register for this course under the number Swed 4004 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.

Style: 10% Lecture, 70% Discussion, 20% Laboratory.

TESL 3001W Basics in Teaching English as a Second Language
214 Nolte Center

Instructor: Cohen, Andrew David

Description: This course, required for both MA ESL majors and undergraduate ESL minors, provides an overview of the structure of the English language that is specifically geared to the needs of teachers of English to speakers of other languages (both ESL and EFL). While not focusing on pedagogical issues per se, it will view the structures of English from the point of view of second language speakers as well as analyzing the ways in which native speakers use the language. The core function of the course is to make clear the links between theoretical concepts in linguistics and the structure of the language produced by native speakers of English. TESL 5401 is the first of a two-semester sequence. In TESL 5401 we will cover English phonetics and phonology, basic morphology of communications, and addressing lesson management issues and needs analyses. An internship at a school or agency teaching ESL is required and will be arranged on the first day of class. The internship requires 2-3 hours of volunteer teaching per week. The internship gives students a context to apply lessons from class and the class serves as a sounding board to discuss issues that arise during the internship. Giving presentations in class, participating in small group and whole class discussions, and writing to connect theory and practice are important parts of the class. The class is 4 credits, meets CLE requirement of Citizenship/Pub-Ethics Theme; meets CLE requirement of Cultural Diversity Theme; meets Writing Intensive requirements and is also part of the TESL minor.

Style: 15% Lecture, 20% Discussion, 35% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.

Notes: service learning is a large part of this course, but occurs outside of class time.

Grading: 15% in-class presentation, 15% class participation, 25% other evaluation. Exams include short answers, essays, and multiple choice questions

Exam Format: short answer essay

TESL 3501 Practical Language Learning for International Communication
3 credit(s);
Instructor: Cohen, Andrew David

Description: Going to study abroad to learn a new language and experience a new culture? What are your strengths as a language learner? This course is about improving language and culture learning—about getting a sense of your learning style, preferences and language strategy preferences. You will also explore your motivation to learn languages in general and a given language in particular, and your motivation to do specific language tasks. Ideally, the course will not only make you more aware, but also better equip you to succeed at learning and using languages now and in the future, at home and abroad. The approach of the course is to provide you with background readings on learning a new language; to engage you in diagnosing your learning style and language strategy preferences and those of your peers; and to have you participate in classroom exercises intended to simulate real language learning and language use situations. The topics include: (a) learning a new language, (b) learning style preferences, (c) defining and classifying language learner strategies; (d) strategies for cross-cultural awareness and enhancing adaptation to a new culture, (e) strategies by skill areas—listening, vocabulary learning, speaking, reading, writing, translation, and nonverbal strategies, (f) motivation in language learning, (g) the intersection of task, style, and strategy, and (h) learning language under differing teaching methods. 2 term papers: describing yourself and then 3 peers as language learners.

Style: 20% Lecture, 30% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.

Group tasks, groups of 2-3 will lead a portion of the class sessions.

Grading: 50% reports/papers, 30% quizzes, 5% attendance, 10% in-class presentation, 5% class participation.

Exam Format: Short-answer questions – on 3 quizzes, no exam.

TESL 5401 Language Analysis for Teachers of English as a Second Language
15-209 Malcolm Moos Health Sciences Tower

Instructor: Mulet Pradera DDS, MS, Mariona

Description: This course provides the student with clinical experience in the diagnosis and management of TMD, complex chronic orofacial pain and oral medicine conditions under the supervision of the course director and/or other faculty. A multidisciplinary treatment approach of patients with TMD and orofacial pain is used.

Style: 10% Lecture, 70% Discussion, 20% Laboratory.

Exam Format: short answer essay

and multiple choice questions

Grading:
15% in-class presentation, 15% class participation, 25% other evaluation. Exams include short answers, essays, and multiple choice questions

Exam Format: short answer essay

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English, and the grammar of the simple sentence in English, including word order, subject-verb agreement, verb tense and aspect, modals, negation, and question formation. > Grade for Graduate credit: 40% written reports/papers, 45% quizzes, 15% class participation > Grade for Undergraduate credit: 85% quizzes, 15% class participation > Exam format: short answer essay

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 40% reports/papers, 45% quizzes, 15% class participation. Grade for Graduate credit: 40% written reports/papers, 45% quizzes, 15% class participation. Grade for Undergraduate credit: 85% quizzes, 15% class participation

**Exam Format:** short answer essay

**TESL 5402 Language Analysis for Teachers of English as a Second Language**

4 credit(s); prerequisite 5401, Ling 5001;

**Instructor:** Lazaraton, Anne

**Description:** This course provides an overview of the more complex aspects of English grammar (articles, passives, indirect objects, prepositions, conditionals, relative clauses, complementation, reported speech), and of basic elements of pragmatics and discourse analysis as applied to English usage. Pedagogical implications of these considerations will be investigated. TESL 5402 is the second of a two-semester sequence. The sequence is required in the first year for M.A. in ESL students, and may also be taken by other graduate students interested in teaching ESL to adults. Prerequisites: TESL 5401.

**Style:** 50% Lecture, 50% Discussion.

**Grading:** 40% reports/papers, 35% quizzes, 15% in-class presentation, 10% class participation.

**Exam Format:** problem solving

**TESL 5722 Practicum in Teaching English as a Second Language**

S-N only, 6 credit(s), max credits 12; prerequisite [5401 or concurrent registration is required (or allowed) in 5401], [5402 or concurrent registration is required (or allowed) in 5402], 5721, ESL major or ESL minor or instr consent ;

**Instructor:** Margolis, Douglas

**Description:** Student may contact the instructor or department for information.

**TESL 5900 Topics in Second Language Learning and Teaching: Learning and Teaching of Pragmatics**

3 credit(s), max credits 12, 4 repeats allowed;

**Instructor:** Cohen, Andrew David

**Description:** Title of Course: Learning and Teaching of Pragmatics. The course takes both a sociolinguistic and a psycholinguistic look at the learning and performance of second- and foreign-language pragmatics. Each student completes a midterm project which entails a review of research literature, and then as a final project conducts a small-scale empirical study of pragmatic behavior, either individually or in a small research team. The readings are all available on the Web Vista site, including a book by Kasper and Rose on pragmatic development that appeared as a special issue of a journal in 2002. Half of each class session involves presentation and the other half is spent in a series of different small-group activities, depending on the topic.

**Style:** 25% Lecture, 40% Discussion, 20% Small Group Activities. 10% Student Presentation, 5% Web Based.

**Grading:** 50% reports/papers, 15% written homework, 10% attendance. Midterm paper is review of literature. Students are graded both for attendance and participation in class sessions.

**Exam Format:** No exams in the course.

**TESL 5993 Directed Studies**

1-4 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent, dept consent, college consent;

**Instructor:** STAFF

**Description:** In order to obtain Directed Studies credit through TESL 5993, students must fill out a Student/Faculty Contract for Directed Study. On the form, the student indicates the title of the project, the number of desired semester credits (1-4), the learning objectives associated with it, methods and resources to be used (books, articles, etc.), and also indicate how the results of the project will be evaluated. Then a Faculty Member for ESL must approve it and sign as the supervisor for the project. Forms are available in the department office.

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**Theatre Arts**

580 Rarig Center

**TH 1101V Honors Section: Introduction to the Theater**

A-F only, 4 credit(s); prerequisite Honors; meets CLE req of International Perspectives Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

**Instructor:** Lewis, Megan

**Description:** TH 1101 is an entertaining, informative exploration of the art and profession of theatre. This course integrates intellectual stimulation with creative expression through lectures, small group discussion, and attending live performances in the Twin Cities. Students study plays (classical and contemporary), the politics of theatre both past and present, elements of production, and learn how a play evolves from page to stage. Students also get a hands-on opportunity to collaborate on the creative project (no acting is required). For students interested in art and education, TH 1101 introduces diversity and celebrates creativity; For students interested in business and law, TH 1101 promotes collaboration and critical thinking and enhances oral communication skills; For students interested in the sciences, TH 1101 strengthens interpersonal communication skills and promotes right-brain activity; For students interested in engineering and math, TH 1101 encourages abstract thinking and creative application of knowledge; For students interested in the humanities, TH 1101 explores the human experience and the intersections of art, history, and culture; For students interested in medicine, TH 1101 emphasizes the well-being of the soul through collaborative exchange. A-F only, prerequisite Honors, meets Lib Ed req of International Perspective Theme; meets Lib Ed req of Literature Core; meets Lib Ed req of Writing Intensive; meets Honors req of Honors

**Style:** 40% Lecture, 20% Discussion, 20% Laboratory, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.

**Grading:** 50% reports/papers, 15% special projects, 10% attendance, 20% reflection paper, 5% class participation.

**TH 1101W Introduction to the Theatre**

4 credit(s); meets CLE req of International Perspectives Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;

**Instructor:** Lewis, Megan

**Description:** TH 1101 is an entertaining, informative exploration of the art and profession of theatre. This course integrates intellectual stimulation with creative expression through lectures, small group discussion, and attending live performances in the Twin Cities. Students study plays (classical and contemporary), the politics of theatre both past and present, elements of production, and learn how a play evolves from page to stage. Students also get a hands-on opportunity to collaborate on the creative project (no acting is required). For students interested in art and education, TH 1101 introduces diversity and celebrates creativity; For students interested in business and law, TH 1101 promotes collaboration and critical thinking and enhances oral communication skills; For students interested in the sciences, TH 1101 strengthens interpersonal communication skills and promotes right-brain activity; For students interested in engineering and math, TH 1101 encourages abstract thinking and creative application of knowledge; For students interested in the humanities, TH 1101 explores the human experience and the intersections of art, history, and culture; For students interested in medicine, TH 1101 emphasizes the well-being of the soul through collaborative exchange. A-F only, prerequisite Honors, meets Lib Ed req of International Perspective Theme; meets Lib Ed req of Literature Core; meets Lib Ed req of Writing Intensive; meets Honors req of Honors

**Style:** 40% Lecture, 20% Discussion, 20% Laboratory, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.

**Grading:** 50% reports/papers, 15% special projects, 10% attendance, 20% reflection paper, 5% class participation.
TH 1321 Beginning Acting: Fundamentals of Performance 3 credit(s); prereq 1101 or concurrent registration 1101; Instructor: STAFF
Description: Introduces beginning students to a widely applicable, comprehensive vocabulary and techniques for practical performance studies, including the use and training of the instrument; the creation of theatrical ideas or choices; the creation of dramatic &quot;phrases&quot; by sequencing ideas and choices to tell stories; and the significance of circumstances for choice making. The course has three overarching objectives: providing an introduction to creation processes specific to the performer, psychological and physical training of the acting instrument, and training the personal imagination. The first part of a two-course sequence (with TH 1322, Creating the Performance) intended for theatre arts majors. Required reading: A compilation of performance processes, theories and techniques including: Lecoq, Grotowski, Stanislavski, Meyerhold, Chekov, etc.
Style: 10% Discussion, 90% Laboratory.
Grading: 25% reports/papers, 25% in-class presentation, 25% other evaluation. Attendance & Participation; 25% Attitude & Growth.

TH 1322 Creating the Performance 3 credit(s); prereq 1321; Instructor: Rosen, Robert S
Description: Creative approaches to re-inventing life on-stage. To create a theatre of human nature, through diverse forms of visual expression, music, language and acting technique. This course is designed to stimulate individual expression and creativity through the exploration of theatrical genres and techniques while at the same time encouraging originality. Discover the art of the Director as a collaborator, guiding the efforts of the playwright, designers and actors. Students will serve as both actors and directors to create solo, collaborative and student directed performances using acting techniques based in eclectic forms of visual and verbal expression. The course will explore original student generated work as well as previously conceived scripted work. Text work will include examining the relation between what is in the words of a text and what lies between the words.

TH 1322 Creating the Performance 3 credit(s); prereq 1321; Instructor: Taylor, Dominic A
Description: Student may contact the instructor or department for information.

TH 1323 Beginning Acting: Fundamentals of Performance 3 credit(s); prereq 1101 or concurrent registration 1101; Instructor: STAFF
Description: Introduces beginning students to a widely applicable, comprehensive vocabulary and techniques for practical performance studies, including the use and training of the instrument; the creation of theatrical ideas or choices; the creation of dramatic &quot;phrases&quot; by sequencing ideas and choices to tell stories; and the significance of circumstances for choice making. The course has three overarching objectives: providing an introduction to creation processes specific to the performer, psychological and physical training of the acting instrument, and training the personal imagination. The first part of a two-course sequence (with TH 1322, Creating the Performance) intended for theatre arts majors. Required reading: A compilation of performance processes, theories and techniques including: Lecoq, Grotowski, Stanislavski, Meyerhold, Chekov, etc.
Style: 10% Discussion, 90% Laboratory.
Grading: 25% reports/papers, 25% in-class presentation, 25% other evaluation. Attendance & Participation; 25% Attitude & Growth.

TH 1395 BFA Acting II A-F only, 3 credit(s); prereq 1391; Instructor: Mitchell, Kenneth N
Description: Student may contact the instructor or department for information.

TH 1396 BFA Voice and Speech II A-F only, 2 credit(s); prereq 1392; Instructor: STAFF
Description: BFA Core Component

TH 1397 BFA Movement II A-F only, 2 credit(s); prereq 1393; Instructor: STAFF
Description: BFA Core Component

TH 1911W Freshman Seminar: Theatre, Entertainment With Attitude A-F only, 2 credit(s); prereq Fr with no more than 30 cr; Meets CLE req of Writing Intensive; Instructor: Bernstein, David Joseph
Description: Is live performance obsolete? Are art and entertainment the same, as in "A & E"? In this freshman seminar for non-theater majors, we will address these questions by experiencing the power, immediacy, and social relevance of live theater. Our main goal is to use the rich cultural resources of the Twin Cities, supplemented by in-class discussions, talks with theater and dance professionals, and textual readings to develop a critical language - and a critical eye - with which to look at performance. We will attend performances at a variety of local theaters and use the experience of seeing them 'up close and personal' to focus on a number of questions. What does it mean for a theater to be mission-driven rather than market-driven? How does theater reflect social and political issues - and the cultural context in which it was created and/or performed? How, and how well, do acting, scenery, costumes, lighting, and sound combine into a total effect to make a text or concept come alive on stage? And yes, we will also ask each production whether or not it engaged and entertained us as audience members. Here is an excellent opportunity to experience live performance and think about its relationship to culture and values. In other words, to experience live theater as more than a way of passing the time on an otherwise boring Thursday night.
Style: 10% Lecture, 40% Discussion. attending theatre productions
Grading: 55% reports/papers, 25% special projects, 20% class participation.
Exam Format: No exams
Description: Student may contact the instructor or department for information.

TH 2396 BFA Voice and Speech IV
A-F only, 2 credit(s); prereq BFA-acting, sophomore;
Instructor: STAFF
Description: BFA Core Component

TH 2397 BFA Movement IV
A-F only, 2 credit(s); prereq BFA-acting sophomore;
Instructor: STAFF
Description: BFA Core Component

TH 3100 Theatre Practicum
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;
prereq 1101; only two enrollments as actor may count toward a major;
Instructor: STAFF
Description: Do you want to get involved in production on the Main Season for University Theatre? This is a course that can give you that opportunity. You will be assigned a specific position on a production and get a chance to work on as well as see first hand what goes into a full scale theatrical production. Come and explore the possibilities.
Style: 5% Lecture, 95% Laboratory.
Grading: 5% class participation, 95% laboratory evaluation.

TH 3120 Theatre: Theory and Practice
3 credit(s), max credits 6; prereq 1101;
Instructor: Palani,Malin A
Description: Student may contact the instructor or department for information.

TH 3172 History of the Theatre: Age of Enlightenment to Present
3 credit(s); prereq Th major or instr consent;
Instructor: Petre,Cipriana
Description: Student may contact the instructor or department for information.

TH 3316 Voice for the Actor
A-F only, 3 credit(s); prereq 1101, 1321, 1322;
Instructor: Nash,Elizabeth
Description: The student will be taught anatomy and physiology of the vocal mechanism and respiratory system, abdimal breathing, forward tonal placement, clear articulation of consonants, vocal projection and pitch range, IPA phonetic transcription and vowel standardization for American Standard Stage Speech. These techniques will be applied to the performance of dramatic monologues. Due to the ensemble and performing emphasis of this course, attendance is required and will figure in grading.
Style: 10% Discussion, 90% Student Presentation.
Grading: 100% special projects.

TH 3331 Physical Approaches to Acting
3 credit(s); prereq 1322, [3314 or Concurrent registration is required (or allowed) in 3314], [3316 or Concurrent registration is required (or allowed) in 3316], audition;
Instructor: Longhi,Kym R
Description: Physical Approaches to Acting will use Margolis Method to focus on the actor?s body as the primary inspiration and tool for creating theatre. Influenced by the work of Grotowski, Brecht and Decroux?s corporeal technique, Margolis Method is an ongoing research that seeks to expand the actor?s expressive boundaries while honing their creative dramaturgical skills. In this course we will use exercises in technique and improvisation structures to unite our physical instincts with our intellect - so that our mind is freed to ride on the impulses of our bodies and our imagination becomes muscular. We will work to demystify the creative process, expose and break down personal physical tendencies that block our energy, develop more specific articulation of our bodies, expand the body?s connection to breath and the voice, and explore our bodies? dynamic relationship with space and other bodies; all with the goal of making more vivid, embodied choices that are essential whether we are interpreting a role or generating original material. We will interact with masks, objects, sticks, set pieces, each other?s bodies, space, gravity, words, silence and ourselves. We will explore a full range of psychophysical expression, from the everyday to the metaphoric and poetic. We will read and reflect on other physical methods and research the roots of Margolis Method, giving us a frame of reference from which to begin sculpting your own physical approach to acting. Assignments will range from creating an original scene to interpreting a scene from dramatic literature. Discover how a disciplined corporeal technique can actually free you to connect to your emotions more deeply, harness and draw upon your energy more powerfully, and cause your ?playing? to come to life more fully.

TH 3332 Circus Performance
A-F only, 1 credit(s);
Instructor: Emery,Margaret
Description: Student may contact the instructor or department for information.

TH 3361 Introductory Musical Theater
A-F only, 3 credit(s);
Instructor: Nash,Elizabeth
Description: The focus of this course is on the development of essential dance and singing warm-ups and skills, textual interpretation, character development, repertory building and audition techniques for musical theatre. Students will perform song and dance works from musical theatre to culminate in a final cabaret performance.
Style: 10% Discussion, 90% Laboratory.
Grading: 20% reports/papers, 30% in-class presentation, 20% class participation, 30% other evaluation. Attendance

TH 3361 Theatre Storytelling and Solo Performance
3 credit(s); prereq 3314 or concurrent enrollment 3314;
Instructor: Winton,Laura Anne
Description: This course will explore the varieties of solo performance, including storytelling, spoken word and performance poetry, and performance art. Students will learn about the history and theory behind these performance forms through learning about specific artists, events and practices. Students will also create their own live performances and attend performance events throughout the semester including storytelling events, open mics, and poetry slams and readings. Students will develop the ability to think about solo performance both critically and creatively. NOTE: Prequisite will be waived for students who are at least a sophomore or above and have coursework in reading and analyzing scripts and performance pieces as well as either coursework or significant practical experience with theatre and performance.
Style: 10% Lecture, 5% Film/Video, 35% Discussion, 35% Laboratory, 10% Demonstration, 5% Field Trips. Laboratory = performance workshop/in-class rehearsal and preparation time. Grading: 30% special projects, 20% attendance, 10% journal, 10% reflection paper, 25% in-class presentation, 5% other evaluation. See course syllabus for more detail. In-class participation includes discussion, giving thoughtful feedback to your peers, and actively participating in workshop exercises and rehearsal time.

TH 3395 BFA Intensive I
A-F only, 2 credit(s); prereq BFA-acting jr;
Instructor: STAFF
Description: BFA Core Component

TH 3398 BFA Rehearsal & Performance I
A-F only, 2 credit(s); prereq BFA-acting jr;
Instructor: STAFF
Description: BFA Core Component

TH 3399 BFA Rehearsal and Performance II
A-F only, 2 credit(s); prereq BFA-acting jr;
Instructor: STAFF
Description: BFA Core Component

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TH 3505 Design and Technical Production II

Description: BFA Core Component

TH 3505 Design and Technical Production II: BFA
3 credit(s); prereq 3513. BFA theatre arts student credit will not be granted if credit received for: 3515;
Instructor: Lee O'Black, Shannon Michelle
Description: Student may contact the instructor or department for information.

TH 3515 Design and Technical Production II
4 credit(s); prereq 1101;
Instructor: Lee O'Black, Shannon Michelle
Description: Student may contact the instructor or department for information.

TH 3950 Topics in Theatre: New Voice Creations
2 credit(s), max credits 8, 8 repeats allowed; prereq Varies by topic;
Instructor: Mandell, Janice L
Description: Student may contact the instructor or department for information.

TH 3950 Topics in Theatre: Tony Kushner in America
3 credit(s), max credits 8, 8 repeats allowed; prereq Varies by topic;
Instructor: Katz, Judith
Description: Student may contact the instructor or department for information.

TH 4115 Intermediate Playwriting
3 credit(s); prereq 3115 or [writing sample, instr consent];
Instructor: Obolensky, Kira
Description: Co-taught by Kira Obolensky and Lisa Channer
This intermediate writer's workshop will provide a supportive and stimulating environment in which writers, directors and actors can develop both playwriting and critical skills. Suitable for students who have written in other mediums, as well as theatre students who have participated in the creation of new plays, this class will explore various ways of play-making: from linear, plot-driven scripts, to work that develops its own logic, to plays inspired by topics, improvisation and research. We'll be specifically exploring the Joint Stock Method, a way of collaborating on large-scale production by sharing responsibilities for research and writing. The class is ideal for students willing to experiment and collaborate. Among other sources of inspiration, we'll explore the Sumerian epic poem, Gilgamesh. Everyone will participate in writing, performing and interpreting. Each class will contain discussion and analysis of existing works from the ?theatrical canon?; writing exercises; and in-class discussion of our work in progress. The class will address various topics; among them: script as a map; the well-made play and other valid theatrical experiences; and quickness and lightness. Because of the semester's focus on the creation of a group play, we'll spend time studying other well-known plays created in this method by such writers and collectives as SITI Company, David Hare and Caryl Churchill.

TH 4322 Acting for the Camera
3 credit(s); prereq 1301 or 3231;
Instructor: Dierks, Shirley V
Description: Student may contact the instructor or department for information.

TH 4380 Creative Collaboration
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Audition, interview, instr consent;
Instructor: STAFF
Description: Creative Collaboration students will explore multi-disciplinary creation and community building theater techniques while working together to create an original performance. The class will be led by Maren Ward of Bedlam Theatre, an experimental community based theater located on the West Bank. Well versed in creative collaboration, the Bedlam company has produced a wide range of exciting work including Terminus - a sci-fi extravaganza with revolving cardboard spaceship surrounding the audience, Unhinged - a feminist horror show, and the annual Barebones Halloween Show - a community created outdoor nighttime spectacle of larger than life puppets, originally composed live music, theater, dance and pyrotechnics. Bedlam's most recent hit, conceived and directed by Ms. Ward, was West Bank Story - an original musical about the West Bank neighborhood. The collaboration class will be following up on some of the connections made during this project and creating a new community based, site-specific performance. Students will have an opportunity to engage in an artistic dialogue with students and guest speakers from the following courses: Place, Politics and Memory (geography), Urban Design, Arts and Social Engagement (visual arts) and Performance and Social Change - (theater arts)

TH 4395 BFA Intensive III
A-F only, 2 credit(s); prereq BFA-acting sr;
Instructor: STAFF
Description: BFA Core Component

TH 4398 BFA Rehearsal and Performance V
A-F only, 2 credit(s); prereq BFA-acting sr;
Instructor: STAFF
Description: BFA Core Component

TH 4399 BFA Rehearsal and Performance VI
A-F only, 2 credit(s); prereq BFA-acting sr;
Instructor: STAFF
Description: BFA Core Component

TH 4532 Makeup for the Actor
2 credit(s);
Instructor: Bundick, Theresa Jane
Description: Student may contact the instructor or department for information.

TH 4550 Video Technology
3 credit(s);
Instructor: Gwinup, Martin Bruce
Description: By the end of this course students should understand and be comfortable with common approaches to lighting, camera operation, audio and production practices for video production. This course is based both in studio as well as in the field. Specifics of video protocols and formats will be discussed. The creative discussions in the class will include aesthetics, continuity and composition. Students understanding of the topics and techniques discussed in this course will culminate in their final project. This course is open to any student on campus who has an interest in video or film production.

TH 4711 Intermediate Stage Direction
3 credit(s); prereq 1322 or instr consent;
Instructor: Bellamy, Louis Richard
Description: Student may contact the instructor or department for information.

TH 4901 Senior Seminar
S-N only, 2 credit(s); prereq Sr, [Th or Dnce major]; Credit will not be granted if credit has been received for: DNCE 4901;
Instructor: Seifert, Luverne G
Description: Student may contact the instructor or department for information.

TH 4905H Honors: Tutorial Seminar in Theatre Arts
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq =4905; honors, theatre arts, dept consent; limit [2 cr for [cum laude or magna cum laude], 4 cr for summa cum laude];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

TH 5100 Theatre Practicum
1-4 credit(s), max credits 20, 10 repeats allowed; prereq instr consent, dept consent; 4 cr of 3100 for undergrads;

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Instructor: STAFF
Description: Individual creative projects in production of approved plays as an actor, director, dramaturg or playwright.

TH 5182 Contemporary Black Theatre: 1960-Present
3 credit(s); Credit will not be granted if credit has been received for: AFRO 5182;
Instructor: Bellamy,Louis Richard
Description: During the Fall Semester 2002, Contemporary Black Theatre will, after introduction to the Black Arts movement and representative plays by Lorraine Hansberry and Amiri Baraka, concern itself with the plays of two authors who have elected to represent the human condition through the African American ethos in cycle plays: Ed Bullins and August Wilson. One, or both of the authors will discuss their work in class. Both authors will be in residence for public symposia sponsored by the University of Minnesota and Penumbra Theatre. The class presents the rare opportunity to engage in guided intellectual discussion and to view plays written by August Wilson and produced by Penumbra Theatre. Penumbra Theatre enjoys national prominence for its critically acclaimed interpretation of Mr. Wilson's work and will present "Joe Turner's Come and Gone," "Two Trains Running," "Seven Guitars," and "King Hedley II" during its 2002-2003 season. For more information, contact Lou Bellamy (651) 290-8861. (limit 20 students)

TH 5330 Comedy: Advanced Physical Performance Studio
A-F only, 3 credit(s); prereq 3331, instr consent ;
Instructor: Rosen,Robert S
Description: Student may contact the instructor or department for information.

TH 5500 Theatre Design Practicum
1-3 credit(s), max credits 20, 10 repeats allowed; prereq 3515, instr consent, dept consent;
Instructor: STAFF
Description: Individual projects in production of approved plays as a designer for scenery/properties, costumes, lighting or sound.
Style: 100% Laboratory.
Grading: 100% other evaluation. final production and prep work

TH 5510 Drawing, Rendering, and Painting for the Theatre Designer I
3 credit(s); prereq 3515 or grad or instr consent;
Instructor: Brockman,C Lance
Description: This course is designed to help students of theatre and performance develop a basic visual vocabulary necessary to create set, light and costume designs. Much of the work in this course is directed to honing skills of seeing and representational drawing and painting. Students will experience a series of exercises that stress the importance of line and the use of value as a means of creating a three-dimensional object on the blank page. In the last weeks of the course, students will work to apply visual styles to create visual sketches appropriate for interpretative performances. Previous experience is not necessary but the only prerequisite is a willingness to challenge your perception skills coupled with the overall desire to further develop visual literacy.

TH 5520 Scene Design
3 credit(s), max credits 9, 3 repeats allowed; prereq 3515 or grad or instr consent;
Instructor: Brockman,C Lance
Description: Scene design is a course that focuses on the visual environments created for the stage. Students will work to perfect skills in interpreting scripts, refining design choices, and representing design ideas for the stage. This course can be repeated and the first level is focused on developing sculptural space. The second level is about creating lyrical space for opera and musicals. As in a professional design studio, these two levels are taught concurrently. Developing skills in visual representation and collaborative communication are the focus of the projects for this course.

TH 5545 Stage Lighting Technology
3 credit(s); prereq 3515 or grad or instr consent;
Instructor: Dilliard,Markus F
Description: Student may contact the instructor or department for information.

TH 5559 Sound Design for Performance
3 credit(s); prereq 4555 or instr consent ;
Instructor: Gwinup,Carloining
Description: Sound Design covers many areas. We will look specifically as the areas of Sound Design as it relates to live performance. We will explore topics such as psychoacoustics, audience response, spatial acoustics, music history/research, and sound manipulation. the students will be expected to utilize the departmental sound recording studio to create sound projects and sound designs. We will also discuss and explore approaches to sound design both from scripted works as well as created works. Prerequisite for this course is TH4555 Audio Technology. TH4556 Digital Audio and MIDI for Live Performance, is highly recommended but not required before taking this course
Style: 30% Lecture, 30% Discussion, 40% Laboratory.
Grading: 10% reports/papers, 40% special projects, 10% in-class presentation, 10% class participation, 20% laboratory evaluation, 10% problem solving

TH 5570 Properties/Scenery Technology
1-3 credit(s), max credits 15, 15 repeats allowed; prereq 3515 or grad or instr consent;
Instructor: Gramann II,Dwane J
Description: Individual creative projects in production of approved plays and soundcape as a designer for scenery/properties, costumes, lighting or sound.
Style: 100% Laboratory.
Grading: 100% laboratory evaluation.

TH 5570 Properties/Scenery Technology
1-3 credit(s), max credits 15, 15 repeats allowed; prereq 3515 or grad or instr consent;
Instructor: Henry,Brent A
Description: StageCraft- We will be investigating the issues that are involved in the production of scenery for a theatrical production.
Style: 50% Lecture, 25% Laboratory, 10% Small Group Activities, 15% Guest Speakers.

TH 5580 Costume Technology
3 credit(s), max credits 5, 5 repeats allowed; prereq 3515 or grad or instr consent ;
Instructor: Harrington,James L
Description: Student may contact the instructor or department for information.

TH 5580 Costume Technology
3 credit(s), max credits 15, 5 repeats allowed; prereq 3515 or grad or instr consent ;
Instructor: Binder-Pettigrew,Susan M
Description: Spring Semester's emphasis is Draping. The student will gain working knowledge of pattern making using a technique where in a pattern is achieved by draping and manipulating fabric directly on a dressmaker's form.

TH 5580 Costume Technology
3 credit(s), max credits 15, 5 repeats allowed; prereq 3515 or grad or instr consent ;
Instructor: Gramann II,Dwane J
Description: Student may contact the instructor or department for information.

TH 5590 Theatre Technology Practicum
1-3 credit(s), max credits 15, 15 repeats allowed; prereq 3515, instr consent, dept consent; 4 cr max for undergrads;
Instructor: STAFF
Description: Individual creative projects in the technology or craft areas of theatre that further practical skills or knowledge in the fields of costume, lighting, makeup, props, scenery, sound, or theatre management.

TH 5760 Advanced Stage Management
2-3 credit(s), max credits 3, 1 repeat allowed; prereq 5716 or concurrent enrollment 5716, instr consent; [4 cr max for undergrads];
Instructor: Swartwout, Christine M
Description: Student may contact the instructor or department for information.

TH 5780 Advanced Topics in Arts Management
3 credit(s), max credits 8, 4 repeats allowed; prereq 5718;
Instructor: Horejsi, Brooke
Description: Course focuses on contemporary issues in marketing for primarily nonprofit, art environments. Although not intended to be a comprehensive marketing class, larger issues, in both theory and practice of marketing, will be discussed relative to the topics chosen. Topics of inquiry include, but are not limited to, the role of marketing within an arts organization and the greater cultural community, the writing and development of marketing plans, the various marketing media and their materials. Class readings to include assigned text and supplemental readings supplied by instructor. Class evaluations include class attendance, participation and discussion, class project(s), final project and presentation. Graduate students and upper-level undergraduate students who are exploring arts management through journalism (PR), business, public policy and affairs, and all arts disciplines are encouraged to take this course. BIS, IDM, MLS, and MPA and Non-Profit Management degrees are particularly good fits for this course. Style: 30% Lecture, 50% Discussion, 10% Small Group Activities, 10% Guest Speakers.

TH 5950 Topics in Theatre: Advanced Margolis Method
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Longhi, Kym R
Description: Student may contact the instructor or department for information.

TH 5993 Directed Study
1-5 credit(s), max credits 20, 20 repeats allowed; prereq 6 Th yr, instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study.

TH 8112 History and Theory of Western Theatre: Medieval Through Renaissance
3 credit(s);
Instructor: Kuftinec, Sonja
Description: Student may contact the instructor or department for information.

TH 8120 Seminar
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Werry, Margaret L
Description: Student may contact the instructor or department for information.

TH 8950 Topics in Theatre: MFA in Design PDW
1 credit(s), max credits 8;
Instructor: Gramann II, Dwane J
Description: Student may contact the instructor or department for information.

**Toxicology**

244 Veterinary Diagnostic Lab

TXCL 5000 Directed Research in Toxicology

A-F only, 1-4 credit(s), max credits 16, 16 repeats allowed; prereq instr consent;
Instructor: Murphy, Michael J
Description: Student may contact the instructor or department for information.

TXCL 5545 Introduction to Regulatory Medicine
A-F only, 2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: CVM 6545;
Instructor: Murphy, Michael J
Description: Student may contact the instructor or department for information.

### Translation and Interpreting
101 Wesbrook Hall

TRIN 3101 Introduction to Interpreting
3 credit(s); prereq high level of proficiency in spoken English and another language; 3001 recommended;
Instructor: STAFF
Description: A practical and theoretical introduction to interpreting in health, human service, and legal settings. Emphasis on understanding the unique role of the interpreter, current models and modes of interpreting, ethical issues and professional standards of practice, and developing skills in understanding and analyzing spoken language.

TRIN 3102 Consecutive Interpreting
3 credit(s); prereq 3101, high level of proficiency in [spoken English, another language];
Instructor: Carey, Kathleen T
Description: Student may contact the instructor or department for information.

TRIN 3102 Consecutive Interpreting
3 credit(s); prereq 3101, high level of proficiency in [spoken English, another language];
Instructor: Tapias-Heinrich, Betty Ann
Description: Student may contact the instructor or department for information.

TRIN 4201 Interpreting in Health Care Settings
A-F only, 3 credit(s); prereq 1201, 3102;
Instructor: McCalip, Silvia Elena
Description: Student may contact the instructor or department for information.

TRIN 5993 Directed Study
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Carey, Kathleen T
Description: Student may contact the instructor or department for information.

TRIN 5993 Directed Study
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Downing, Bruce T
Description: Student may contact the instructor or department for information.

### Turkish

214 Nolte Center

TURK 1002 Beginning Turkish II
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: TURK 4002;
Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.
TURK 3002 Intermediate Turkish II
5 credit(s); prereq 3001 or instr consent; Credit will not be granted if credit has been received for: TURK 4004;
Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 3900 Topics in Turkish Language, Literature, and Culture: Advanced Turkish and Ottoman II
4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 4002 Beginning Turkish II
3 credit(s); prereq [4001, 4th sem course in another language] or grad student; Credit will not be granted if credit has been received for: TURK 1002;
Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 4004 Intermediate Turkish II
3 credit(s); prereq [4003, 4th semester course in another language] or grad student; Credit will not be granted if credit has been received for: TURK 3002;
Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 5900 Topics in Turkish Language, Literature, and Culture: Advanced Turkish and Ottoman II
4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

University College
20 Classroom Office Building

UC 3201 Web Designer Introduction
4 credit(s);
Instructor: Husom, David Harold
Description: See and learn the Web design process by mastering the four phase process of site development: plan, design, produce and publish. Learn design principles, business practices and site analysis. Use industry standard Web design software including Adobe Photoshop, Dreamweaver and Flash to build your own Website. Also get a firm foundation in HTML and CSS. The class includes lectures, exercises, and lab time in a small, hands-on class. No prerequisites or previous experience required. Course notes will be available at the Coffman Bookstore.
Style: 10% Lecture, 10% Discussion, 50% Laboratory, 5% Student Presentation, 25% Demonstration.
Grading: 75% special projects, 10% quizzes, 5% in-class presentation, 10% class participation. Students create a Web site for a final project

UC 4001 Professional Practice of Addictions Counseling
A-F only, 4 credit(s); prereq Adds student, instr consent;
Instructor: Van Cleve, Michael
Description: Core addictions counseling functions including clinical assessment, case management, documentation treatment planning, and ethical issues. Students begin process of securing internship.

UC 4002 Internship in Substance Abuse Counseling I
S-N only, 2-8 credit(s), max credits 8, 4 repeats allowed;
prereq Adds 4001, Adds student, instr consent;
Instructor: Rohovit PhD, Julie Lynn
Description:

UC 5950 Special Topics: Foundations of Addiction Studies
2 credit(s), max credits 16;
Instructor: Van Cleve, Michael
Description: Student may contact the instructor or department for information.

Urban Studies
348 Social Sciences Building

URBS 1001W Introduction to Urban Studies: The Complexity of Metropolitan Life
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Brinda, Mark Richard
Description: Student may contact the instructor or department for information.

URBS 3001W Introduction to Urban Studies: The Complexity of Metropolitan Life
A-F only, 3 credit(s); prereq = 1001; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Brinda, Mark Richard
Description: Student may contact the instructor or department for information.

URBS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 repeats allowed;
Instructor: Pentel, Paula R
Description: Sec 003 Creating the Public Good 06:00 P.M. - 08:00 P.M., Th (01/22/2008 - 03/16/2008) 1 credit What are nonprofits, and why do they exist? What role do foundations and corporate giving programs play in the ecology of the local community? What strategies can be employed to direct public opinion, and influence decision makers? Such questions will be explored in this colloquium. Students will use case studies to explore what it takes to write a successful grant proposal, how public opinion can be shaped, and the elements of grass roots campaigning. Tom Trow consults for nonprofit organizations in the areas of community relations, media relations, legislative relations and organizational planning. Formerly Director of Community and Cultural Affairs for CLA, he has co-founded 4 nonprofits and served on the Board of Directors of many more. He is currently creating documentary programs in partnerships between Minnesota nonprofits and Twin Cities Public Television.

URBS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 repeats allowed;
Instructor: Pentel, Paula R
Description: Sec 002 Creating the Public Good 06:00 P.M. - 08:00 P.M., Th (03/24/2008 - 05/09/2008) 1 credit When the historic preservation movement began, the marketplace underestimated historic buildings? economic value. That pattern has since shifted -- perhaps too much? This class will survey the challenge of the preservation movement: from the role of city governments to the growing professionalism of volunteer citizen groups; how once-adversarial developers became preservation good guys; and how today's changing patterns of development may need a changed vision by those who care about saving the historic fabric of our cities. Bob Roscoe served many years on the Minneapolis HPC, often as its? chair.

URBS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 repeats allowed;
Instructor: Pentel, Paula R
Description: Sec 001 Financing Affordable Housing 06:00 P.M. - 08:00 P.M., T (01/22/2008 - 03/16/2008) 1 credit This course will focus on municipal and state approaches to affordable housing development, preservation, and finance. Technical, monetary, and ideological perspectives of the public sector and its for- and non-profit partners will be explored, as will the attitudes and tendencies of the communities they serve. The class will include introductions to the financing programs so

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critical to these efforts. Case studies on agency budgeting, trends, and programmatic approaches will be used and analyzed. Jonathan Stanley, a graduate of the Urban Studies Program, earned his MA in Urban and Regional Planning from the University of Pennsylvania, and worked in affordable housing at the New York City Department of Housing Preservation & Development (HPD). He now works for Minnesota Housing, one of the major sources of financing for affordable housing.

URBS 3500 Urban Studies Workshop
A-F only, 3 credit(s); max credits 9, 3 repeats allowed; prereq instr consent; Instructor: STAFF
Description: URBS 3500 Urban Studies Workshops sec -001 Revitalization: Planning and Implementation, 06:30 P.M. - 09:30 P.M. M (01/22/2008 - 05/09/2008) 3 credits This workshop examines what it takes to revitalize neighborhoods or commercial areas in disadvantaged communities. This is a daunting challenge because of the multiple and inter-related dynamic factors that perpetuate the disadvantaged condition. As a class, we will work to understand the nature of that challenge, and we will explore and discuss a toolkit of analytical methods, development and business strategies, and organizational approaches that can be instrumental in overcoming barriers and fostering positive change. Students will develop a case study that examines a successful revitalization process, and identifies the planning and implementation elements that were most pivotal in that process. Tom Leighton, AICP is a principal planner with the city of Minneapolis. sec -002 Urban Real Estate Development: Fundamentals, Processes and Outcome 06:00 P.M. - 09:00 P.M. , W (01/22/2008 - 05/09/2008) , BlegH 240 , TCWESTBANK , 3 credits This course will (1) explore and explain disparate disciplines that interact with and depend on each other in urban real estate development while (2) explaining development itself as a holistic, ecological process and profession. The class will first explore the fundamentals disciplines involved in the urban real estate development process, including budgeting and finance, property management and asset management. Then the course will examine these fundamentals in simulated real estate developments in a chosen Twin Cities neighborhood. The class will have a chance to explore high profile, ongoing Twin Cities? development(s) through site visit(s). Students must have or be willing to develop a basic comfort with spreadsheets (Microsoft Excel), and must be open to learning more about financial analysis, a critical fundamental language of urban development. Pat Connolly was a housing specialist for Commonbond Housing, and is now the director of housing development for Lutheran Social Services.

URBS 3751 Understanding the Urban Environment
A-F only, 3 credit(s); Meets CLE req of Environment Theme; Instructor: Pentel,Paula R
Description: Where is nature in the city? Ecological function? Students will examine links between cities and the environment with an emphasis on air, soil, water, pollution, parks, public space, sustainability, and environmental justice, among others. We will examine the interplay of the environment, technology, scientific knowledge, and culture/politics in this wide-ranging course. Students are required to complete one field trip. Ms Pentel is a City Council member for the City of Golden Valley and a PhD candidate in Geography. Style: 50% Lecture, 25% Discussion. Grading: 25% final exam, 10% reports/papers, 40% quizzes, 5% in-class presentation, 10% class participation, 10% other evaluation. Fieldtrip reaction paper Exam Format: multiple choice and short answer

URBS 3771 Fundamentals of Transit
A-F only, 3 credit(s); Instructor: Pentel,Paula R
Description: Transportation is a fundamental characteristic of urban systems. Participation in the variety of activities available in the urban environment requires movement; transportation provides the means to move from one place to another. Urban transit, as one of the forms of urban transportation, has unique characteristics that need to be understood by the urban planner. This course is not simply a justification for transit. This course will focus on all aspects of the delivery of transit services, including funding, service planning, facility design and implementation. Special emphasis will be placed on the types of transit services available and matching services to the market. This includes regular route bus, heavy rail, light rail, commuter rail, bus rapid transit, personal rapid transit, and demand responsive services. While there will be extensive discussion of the Twin Cities, students will be exposed to a variety of transit services and technologies not available in the Twin Cities.

URBS 3900 Urban Studies Internship Seminar
A-F only, 2 credit(s), max credits 4; prereq Sr, internship placement, dept consent, instr consent; Instructor: Pentel,Paula R
Description: This weekly seminar integrates a student's internship experience with their academic program. This course is appropriate for any student completing an internship that has an urban focus. Students must have their internships secured prior to the beginning of the term, and must speak to Paula Pentel prior to registering. The course has five short assignments designed to have the students reflect critically on their internship experience. Additionally a journal is required. Class discussions are held around the assignments and some are student-led discussions.
Style: 10% Lecture, 90% Discussion.

URBS 3955W Senior Paper Seminar
A-F only, 2 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive; Instructor: Martin,Judith A
Description: This seminar is intended for urban studies seniors who are undertaking their senior papers. Methods and resources for research will be the focus and significant writing will be expected. Students will share experiences, work on drafts, and should expect to have a first draft completed well before the term. Ed Goetz and Paula Pentel

URBS 3955W Senior Paper Seminar
A-F only, 2 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive; Instructor: Pentel,Paula R
Description: This seminar is intended for urban studies seniors who are undertaking their senior papers. Methods and resources for research will be the focus and significant writing will be expected. Students will share experiences, work on drafts, and should expect to have a first draft completed well before the term. Ed Goetz and Paula Pentel

URBS 3993 Urban Studies Directed Study
A-F only, 2-3 credit(s), max credits 6, 3 repeats allowed; prereq UrbS majors, instr consent, dept consent; Instructor: STAFF
Description: For students with a specific educational objective that cannot be satisfied through regular curriculum (e.g., foreign study) and for honors students to complete an honors opportunity.

URDU
453 Folwell Hall

URDU 1102 Beginning Urdu
5 credit(s); prereq 1101 or instr consent; Instructor: Latif,Riyaz
Description: Student may contact the instructor or department for information.

URDU 3132 Intermediate Urdu
5 credit(s); prereq 3131 or instr consent; Instructor: Bazaz,Abir Bashir
Description: Intermediate Urdu 3132/4004 builds on the basic skills acquired in speaking, listening, reading and writing in the first year of Urdu instruction (Urdu 1101/1102) and Urdu
3131/4003. The Course aims for the students to acquire an intermediate-level proficiency in Urdu. Students will learn to read, understand and produce both simple and complex sentences and develop language functions such as narration, description and comparison. The students are expected to read and write coherent Urdu paragraphs and further develop and hone their conversational skills. We will also review and continue the study of Urdu grammar to develop intermediate-level skills. We will be reading selections from the textbook ? Gopi Chand Narang?'s Readings in Urdu Literary Prose ? to build on the conversational, reading, and writing skills already acquired in Urdu 1101/1102 and Urdu 3131/4003. There will be discussions, exercises, and presentations in the class based on our readings in order to develop fluency in oral and written communication. The readings will also familiarize students with the socio-cultural contexts which are vital for skilled communication in Urdu. We will also be reading a variety of other texts. The class would also involve group activities such as film screenings as well as paired and group sessions.

Grading: 20% mid exam, 30% final exam, 25% quizzes, 15% written homework, 10% class participation.

URDU 4002 Beginning Urdu
3 credit(s); prereq 4001, grad student;
Instructor: Latif,Riyaz
Description: Student may contact the instructor or department for information.

URDU 4004 Intermediate Urdu
3 credit(s); prereq 3131 or 4003;
Instructor: Bazaz,Abir Bashir
Description: Intermediate Urdu 3132/4004 builds on the basic skills acquired in speaking, listening, reading and writing in the first year of Urdu instruction (Urdu 1101/1102) and Urdu 3131/4003. The Course aims for the students to acquire an intermediate-level proficiency in Urdu. Students will learn to read, understand and produce both simple and complex sentences and develop language functions such as narration, description and comparison. The students are expected to read and write coherent Urdu paragraphs and further develop and hone their conversational skills. We will also review and continue the study of Urdu grammar to develop intermediate-level skills. We will be reading selections from the textbook ? Gopi Chand Narang?'s Readings in Urdu Literary Prose ? to build on the conversational, reading, and writing skills already acquired in Urdu 1101/1102 and Urdu 3131/4003. There will be discussions, exercises, and presentations in the class based on our readings in order to develop fluency in oral and written communication. The readings will also familiarize students with the socio-cultural contexts which are vital for skilled communication in Urdu. We will also be reading a variety of other texts. The class would also involve group activities such as film screenings as well as paired and group sessions.

Grading: 20% mid exam, 30% final exam, 25% quizzes, 15% written homework, 10% class participation.

Veterinary Medicine, Graduate
455 Veterinary Teaching Hospital

VMED 5080 Problems in Veterinary Epidemiology and Public Health
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Benders,Jeff Blaine
Description: Student may contact the instructor or department for information.

VMED 5090 Seminar: Veterinary Epidemiology
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;
prereq Veterinary Medicine grad student;
Instructor: Deen,John
Description: Student may contact the instructor or department for information.

VMED 5093 Directed Studies in Population Medicine
A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent;
Instructor: Goyal,Sagar M
Description: Student may contact the instructor or department for information.

VMED 5211 Advanced Large Animal Physiology II
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq instr consent ; 5210 recommended;
Instructor: Malone,Erin
Description: Student may contact the instructor or department for information.

VMED 5232 Comparative Clinical Veterinary Dermatologic Pathology
S-N only, 1 credit(s), max credits 2; prereq DVM degree or foreign equiv;
Instructor: Torres,Sheila Mello
Description: Student may contact the instructor or department for information.

VMED 5241 Advanced Small Animal Pathobiology II
A-F only, 1 credit(s); prereq CVM grad student, [DVM or foreign equiv] degree;
Instructor: Patterson DVM,Ned
Description: Grading: 50% reports/papers, 50% attendance.

VMED 5293 Directed Studies in Comparative Medicine and Pathology
A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent;
Instructor: Carlson,Cathy Sue
Description: Student may contact the instructor or department for information.
VMED 5295 Problems in Large Animal Clinical Medicine/Surgery and Theriogenology
A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq VMed grad student, possess DVM;
Instructor: Valberg, Stephanie J
Description: Student may contact the instructor or department for information.

VMED 5310 Topics in Veterinary Clinical Pathology
S-N only, 1 credit(s), max credits 2; prereq Grad student in CVM;
Instructor: Sharkey, Leslie Carol
Description: Student may contact the instructor or department for information.

VMED 5321 Advanced Veterinary Systemic Pathology II
A-F only, 3 credit(s); prereq Grad student in VMED or [CMB, [DVM degree or foreign equiv]] or instr consent;
Instructor: Matise, Ilze
Description: Student may contact the instructor or department for information.

VMED 5330 Veterinary Descriptive Histopathology
1 credit(s), max credits 2; prereq Grad student in VMED or [CMB, [DVM degree or foreign equiv]] or instr consent;
Instructor: Matise, Ilze
Description: Student may contact the instructor or department for information.

VMED 5380 Veterinary Diagnostic and Comparative Pathology
A-F only, 2 credit(s), max credits 4; prereq [DVM/VMD or equiv degree] from a foreign institution, [resident or grad student] in [veterinary anatomic or clinical pathology], instr consent;
Instructor: O'Brien, Timothy David
Description: Student may contact the instructor or department for information.

VMED 5395 Problems in Veterinary and Comparative Pathology
A-F only, 3 credit(s); prereq Grad student in CVM, [DVM degree or foreign equiv];
Instructor: O'Brien, Timothy David
Description: Student may contact the instructor or department for information.

VMED 5420 Molecular Epidemiology of Infectious Disease
A-F only, 3 credit(s); prereq Basic course in microbiology;
Instructor: Sreevatsan, Srinand
Description: Student may contact the instructor or department for information.

VMED 5493 Directed Studies in Infectious Disease
A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent;
Instructor: Dee, Scott Allen
Description: Student may contact the instructor or department for information.

VMED 5496 Training in Swine Production and Management
S-N only, 4 credit(s); prereq VMED grad student or instr consent;
Instructor: Dee, Scott Allen
Description: Student may contact the instructor or department for information.

VMED 5670 Bovine Surgery Practicum
S-N only, 2 credit(s); prereq [VMed grad student, [DVM or equiv foreign degree]] or instr consent;
Instructor: Malone, Erin
Description: Student may contact the instructor or department for information.

VMED 5910 Grant Writing: What Makes a Winning Proposal?
S-N only, 1 credit(s); Credit will not be granted if credit has been received for: CMB 5910;
Instructor: Matchett, Karin Elizabeth
Description: Student may contact the instructor or department for information.

VMED 8195 Pre-Harvest Food Safety and Public Health Aspects of Food Animal Production
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Davies, Peter Robert
Description: Student may contact the instructor or department for information.

VMED 8201 Advanced Small Animal Veterinary Medicine
A-F only, 1-5 credit(s), max credits 5, 1 repeat allowed;
prereq instr consent;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMED 8202 Internal Medicine in Small Companion Animals
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq instr consent;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMED 8203 Advanced Diagnosis and Therapeutics of Animal Disease
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed;
prereq instr consent;
Instructor: Osborne, Carl A
Description: Student may contact the instructor or department for information.

VMED 8210 Seminar: Veterinary Medicine
1 credit(s); prereq instr consent;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMED 8220 Advanced Nephrology/Urology Clinics
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMED 8230 Medical Conference
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMED 8250 Problems in Acid-base, Electrolyte, and Fluid Metabolism
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq instr consent;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMED 8292 Journal Club: Large Animal Internal Medicine
A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq instr consent;
Instructor: Valberg, Stephanie J
Description: Student may contact the instructor or department for information.

VMED 8293 Advanced Studies in Nephrology and Urology
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Lulich PhD, Jody P
Description: Student may contact the instructor or department for information.
A-F only, 1 credit(s);
Instructor: Pluhar,Liz
Description: Student may contact the instructor or department for information.

VMED 8693 Seminar: Large Animal Surgery
A-F only, 1 credit(s), max credits 6, 6 repeats allowed;
prereq DVM or equiv degree, instr consent;
Instructor: Malone,Erin
Description: Student may contact the instructor or department for information.

VMED 8694 Research in Small Animal Surgery
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Pluhar,Liz
Description: Student may contact the instructor or department for information.

VMED 8789 Research in Avian Clinical Problems and Procedures
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq DVM, instr consent;
Instructor: Redig,Patrick Thomas
Description: Student may contact the instructor or department for information.

VMED 8791 Research in Veterinary Anesthesia
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq 8781 or equiv, SACS 5380 or equiv;
Instructor: Quandt,Jane Ellen
Description: Student may contact the instructor or department for information.

VMED 8792 Seminar: Veterinary Radiology
1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Feeney,Daniel A
Description: Student may contact the instructor or department for information.

VMED 8793 Seminar: Veterinary Anaesthesiology
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed;
prereq [CVM 6321 or equiv], DVM degree;
Instructor: Graham DVM,Lynelle
Description: Student may contact the instructor or department for information.

VMED 8794 Research in Veterinary Radiology
1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Feeney,Daniel A
Description: Student may contact the instructor or department for information.

VMED 8795 Problems: Veterinary Radiology
1-3 credit(s), max credits 6, 6 repeats allowed;
Instructor: Feeney,Daniel A
Description: Student may contact the instructor or department for information.

VMED 8796 Avian Anesthesia and Orthopedic Surgery
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq courses in vet anesthesia, vet small animal orthopedics;
Instructor: Redig,Patrick Thomas
Description: Student may contact the instructor or department for information.

Veterinary Population Medicine

VPM 3700 Equine Reproduction and Breeding Management
A-F only, 2 credit(s); prereq AnSc 3305 recommended;
Instructor: Madill,Scott
Description: Student may contact the instructor or department for information.

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**Vietnamese**

**453 Folwell Hall**

**VIET 1016 Accelerated Intermediate Vietnamese**
3 credit(s); prereq 1015 or instr consent;
Instructor: Dang,Nhat Thong
Description: This course is the second of a two semester sequence of beginning Vietnamese; it is for heritage students and those who experienced wuth the languages and have some basic Vietnamese language skills in listening, speaking, reading, and writing. Those who did not take the first course should have the instructor's permission before taking the class. The learners will be able to speak, read and write simple sentences, and to understand short paragraphs and stories related to everyday life activities and some notions of history and culture of Vietnam.
Style: 50% Lecture, 20% Discussion.
Grading: 25% final exam, 8% reports/papers, 40% quizzes, 7% class participation, 20% other evaluation. homework
Exam Format: multiple choice, questions/answers, matching, fill in the blank, dictation, spelling.

**Water Resources Science**

**173 McNeal Hall**

**WRS 5101 Water Resources: Individuals and Institutions**
3 credit(s); prereq Grad student or instr consent;
Instructor: Baker,Lawrence Alan
Description: Student may contact the instructor or department for information.

**WRS 8050 Special Topics in Water Resources Science: Making the Sustainable Urban River: Mississippi**
A-F only, 1-3 credit(s), max credits 6, 6 repeats allowed;
Instructor: Nunnally,Patrick
Description: Student may contact the instructor or department for information.

**WRS 8100 Interdisciplinary Seminar in Water Resources**
0.5-3 credit(s), max credits 3, 3 repeats allowed;
Instructor: Nieber,John Little
Description: Student may contact the instructor or department for information.

**WRS 8581 Research and Professional Ethics in Water Resources and Environmental Science**
S-N only, 0.5 credit(s); prereq [Environmental engineering or water resources science] grad student or instr consent;
Credit will not be granted if credit has been received for: CE 6442;
Instructor: Newman,Raymond M
Description: Student may contact the instructor or department for information.

**Work and Human Resource Education**

**210 VoTech Building**

**WHR 3011W Introduction to Technology and Public Ethics**
3 credit(s); meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Davis PhD,Joan Audray
Description: Student may contact the instructor or department for information.

**WHR 3011W Introduction to Technology and Public Ethics**
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Franske,Ben J
Description: Student may contact the instructor or department for information.

**WHR 3105 Introduction to Strategic Planning Through Human Resources**
A-F only, 3 credit(s); prereq 3001;
Instructor: Blalck,Tani Keenlyne
Description: Student may contact the instructor or department for information.

**WHR 5001 Survey: Human Resource Development and Adult Education**
3 credit(s);
Instructor: Peterson,Shari L
Description: Student may contact the instructor or department for information.

**WHR 5011W Technology and Public Ethics**
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Franske,Ben J
Description: Student may contact the instructor or department for information.

**WHR 5011W Technology and Public Ethics**
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Franske,Ben J
Description: Student may contact the instructor or department for information.

**WHR 5121 Principles of Supervisory Management**
3 credit(s);
Instructor: Schultz,Jennifer Lynn
Description: Student may contact the instructor or department for information.

**WHR 5351 Methods for Change in Developing Countries**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AFEE 5351;
Instructor: Amenumey,Felix K.
Description: Student may contact the instructor or department for information.

**WHR 5401 Distance Learning in Adult Education and Training**
A-F only, 3 credit(s);
Instructor: Eichler,Matthew Alan
Description: Student may contact the instructor or department for information.

**WHR 5628 Multimedia Presentations in Business**
3 credit(s); prereq 5011 or equiv;
Instructor: Anderson,Michelle M
Description: Student may contact the instructor or department for information.

**WHR 5661 Instructional Methods for Business and Industry**
2 credit(s); prereq credit will not be granted if credit received for: HRD 5661 or BIE 5661; Credit will not be granted if credit has been received for: HRD 5661;
Instructor: Stertz,Tom
Description: Student may contact the instructor or department for information.

**WHR 5698 Teaching Internship**
3-8 credit(s), max credits 8, 1 repeat allowed; prereq Admission to initial licensure program;
Instructor: Westrom,Lyle Emil  
Description: Student may contact the instructor or department for information.

WHRE 5698 Teaching Internship  
3-8 credit(s), max credits 8, 1 repeat allowed; prereq Admission to initial licensure program;  
Description: Student may contact the instructor or department for information.

WHRE 5698 Teaching Internship  
3-8 credit(s), max credits 8, 1 repeat allowed; prereq Admission to initial licensure program;  
Instruction: Nehring,Michael Kenneth  
Description: Student may contact the instructor or department for information.

WHRE 5699 Teaching Internship: Extended  
1 credit(s); prereq 5698; Credit will not be granted if credit has been received for: CI 5927;  
Instruction: Johnson,Andrea Sherman  
Description: Student may contact the instructor or department for information.

WHRE 5699 Teaching Internship: Extended  
1 credit(s); prereq 5698; Credit will not be granted if credit has been received for: CI 5927;  
Instruction: Nehring,Michael Kenneth  
Description: Student may contact the instructor or department for information.

WHRE 5822 Diversity and Organizational Transformation in Work and Human Resource Education  
3 credit(s);  
Instruction: Cooper,Diana C  
Description: Student may contact the instructor or department for information.

WHRE 5901 Using Research in Work and Human Resource Education  
3 credit(s);  
Instruction: Bowen,Mauvalyn Manzia  
Description: Student may contact the instructor or department for information.

WHRE 5993 Directed Study in WHRE  
1-4 credit(s), max credits 4, 4 repeats allowed;  
Instruction: Twohig,Catherine Carol  
Description: Student may contact the instructor or department for information.

WHRE 5993 Directed Study in WHRE  
1-4 credit(s), max credits 4, 4 repeats allowed;  
Instruction: Brown PhD,James M  
Description: Student may contact the instructor or department for information.

WHRE 8001 Advanced Theory in Human Resource Development and Adult Education  
A-F only, 3 credit(s); prereq 5001 or AdEd 5001;  
Instruction: Ardichvili,Alexandre A  
Description: Critical assessment and development of human resource development (HRD) and adult education (AE) theories and discussion of the role of theory in addressing practical demands placed upon individuals and organizations. COURSE OBJECTIVES: By the end of this course students will be able to: 1. Develop an understanding of the philosophical foundations of theory and theory development; 2. Familiarize themselves with the current approaches to social science research and theory-building; 3. Examine different perspectives of research and theory-building; 4. Develop critical thinking skills necessary to understand, interpret, and evaluate research and theory in human resource development and adult education; 5. Identify, compare and critique some current theories and theory-building methodologies; 6. Construct a HRD or AE theory (or conceptual framework) in a particular area of professional interest; 7. Critically review the literature of theory and research in a particular area of study; 8. Become part of a community of scholars and contribute to the viability and productivity of this community; 9. Recognize personal barriers to effective academic writing, and develop a strategy for overcoming these barriers. METHODS OF INSTRUCTION: The course will primarily utilize seminars, scholarly dialogue, and written assignments. The instructor's main role is to facilitate learning, lead discussions, and share knowledge and resources.

WRIT 1152W Writing on Issues of Science and Technology  
A-F only, 4 credit(s); prereq 1301 or equiv; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;  
Instruction: STAFF  
Description: Ethical, social, and political challenges created by science/technology. Analyzes persuasion strategies through which experts, political decision-makers, and citizens meet these challenges. Bioscience controversies such as cloning, organ transplantation. Controversies over pollution, ozone depletion.

WRIT 1201 Writing Studio  
A-F only, 4 credit(s); prereq Placement in WRIT 1201; Credit will not be granted if credit has been received for: PSTL 1421;  
Instruction: STAFF  
Description: WRIT 1201 introduces students to general writing strategies encountered at the college level. Through frequent practice and feedback, students learn to see writing as a tool for learning and a vehicle for expression of ideas and informed views. Students also learn a working vocabulary for discussing writing. Typical assignments include informal writing derived from personal experience, response to readings, analysis and evaluation of sources on the web and in print, and formal papers that increasingly make use of sources as well as close reading of texts. The course emphasizes the active practice of writing, from gathering ideas for a paper, through the drafting of papers, to careful editing. Many sections meet in computer classrooms. Some sections are designated for non-native speakers and are joined to other learning community courses. This course does NOT meet the first-year writing requirement.  
Style: 10% Lecture, 15% Discussion. instructor-directed practice of writing related to papers  
Grading: 80% reports/papers, 20% class participation. Percentages may vary slightly by section. Class participation includes required in-class writing.

WRIT 1301 University Writing  

WRIT 1311 The Family in American Experience
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; Instructor: Nichols, Capper
Description: The meanings and configurations of family in North America have changed over time, and continue to be revised each generation. Change in the American family has been fueled by a complex web of social and political forces; for example, slavery, economic depression, and domestic violence have challenged the family, as have shifting notions of gender roles, marriage, parenting, and sexuality. The struggle to create, protect, and maintain family in the midst of such tumult is a central drama of American experience. In this class, we will talk and read about the changing family as it has been depicted and represented in novels, short stories, memoirs, and history essays. Texts may include Bastard Out of Carolina - Nicholle Caffer, Dorothy Allston; Beloved - Toni Morrison; String Too Short to be Saved - Donald Hall; Dangerous Angles - Francesca Lia Block; The Kid - Dan Savage; The Grapes of Wrath - John Ford, director; Say Anything - Cameron Crowe, director; and selected television comedies.
Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% class participation.

WRIT 1315 The Land in American Experience
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; Instructor: Russill, Chris
Description: The Land in America as idea and as actual space. History of cultural values and the meanings land holds for us. Contrasting views of land, especially those of certain Native American peoples. Rise of the conservation movement and the urbanization of U.S. space.

WRIT 1401 Writing and Academic Inquiry
A-F only, 4 credit(s); prereq Placement in WRIT 1301 credit will not be granted if credit already received for freshman composition courses under the following former designators: ENGC 1011, ENGC 1012, ENGC 1012H, ENGC 1013, ENGC 1013H, ENGC 1014, ENGC 1014H, ENGC 1015, ENGC 1016, RHET 1101; Credit will not be granted if credit has been received for: WRIT 1101; Instructor: STAFF
Description: WRIT 1301 fulfills the first-year writing requirement. It involves critical reading, writing, and thinking as students practice some of the types of writing they may expect in their college career such as summaries, essays, academic arguments, bibliographies, and papers built on research. The course helps students develop, at a minimum, an approach to writing that relies on clear statement of a thesis and support of that thesis with appropriate sources and documentation. Time is spent discussing rhetorical elements of writing such as audience, purpose, and argumentative structure. Students also practice steps in the writing process such as invention, research, organization of ideas, paper drafting, revision, and editing.
Students report, synthesize, and draw conclusions regarding the significance of what they read. Students become more aware of the rhetorical choices available to them and learn to make appropriate choices. Some sections may be taught in computer classroom. Some sections are offered online. Some sections may include a service-learning component.
Style: 10% Lecture, 35% Discussion. Instructor-directed work on writing assignments, including one-to-one conferences. Grading: 80% reports/papers, 20% class participation. Percentages may vary slightly by section. Class participation includes required in-class writing.

WRIT 3029W Professional Writing
3 credit(s); prereq Daily access to e-mail; Credit will not be granted if credit has been received for: ENGL 3029W; Meets CLE req of Writing Intensive; Instructor: Gurak, Ph.D, Laura J
Description: In our age of email and text messaging, where we write more than ever, we are often at a loss for how to write in a way that is suited for the workplace and other professional settings. In this course, you will learn the key concepts, techniques, and formats for effective workplace writing. Topics include: --considering your audience and purpose --writing in a manner that is precise and concise --creating effective paragraphs and headings --using persuasion in workplace writing --choosing the right style, tone, and message --using the design and delivery medium We will learn by doing. The most common forms of workplace writing will comprise the bulk of the assignments. These forms include email, the memo, various types of letters, descriptions, proposals, executive summaries, and long or short reports.

WRIT 3221W Communication Modes and Methods
4 credit(s); prereq Soph or Jr or Sr or instr consent Credit will not be granted if the student has already completed Rhet 3221W; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive; Instructor: Russill, Chris
Description: Student may contact the instructor or department for information.

WRIT 3257 Scientific and Technical Presentations
3 credit(s); prereq Comm 1101 or equiv; Instructor: Graf, Richard J
Description: Student may contact the instructor or department for information.
WRIT 3291 Independent Study
1-3 credit(s), max credits 6; prereq instr consent, dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

WRIT 3291 Independent Study
1-3 credit(s), max credits 6; prereq instr consent, dept consent;
Instructor: Volpe, Angelo V
Description:

WRIT 3302 Science, Religion, and the Search for Human Nature
3 credit(s); prereq Soph or jr or sr or instr consent; Meets CLE req of Other Humanities Core;
Instructor: Nichols, Capper
Description: In this course we will study how modern science has challenged religious belief, and how religious belief has responded, particularly in Europe and North America. Our investigation of relations between science and religion is divided into five parts. In the first part, we will consider the theoretical spectrum of belief (and doubt), in the context of scientific practice; next, we will briefly examine the Scientific Revolution of the 15th, 16th, and 17th centuries; third, we will concentrate on Darwin’s theory of evolution and the subsequent reactions; following evolution, we will discuss a series of other scientific and theological controversies: the origin and shape of the universe, astrology and UFOs, the nature of the soul, and the efficacy of prayer. In the last part of the course, we will take up recent political issues in which science and religion often interact: war, reproductive technologies, and the environment. The coursework is a trinity of reading, discussion, and writing. Class time will be largely devoted to discussion; at the end of each week students will write a short essay in response to the reading and discussion. Style: 20% Lecture, 10% Film/Video, 50% Discussion, 20% Small Group Activities.
Grading: 80% reports/papers, 20% class participation.

WRIT 3361 Literature of Social Movements in the United States: 1950 to 2000
A-F only, 3 credit(s); prereq Soph or jr or sr or instr consent; Meets CLE req of Literature Core;
Instructor: STAFF
Description: Analysis of literature (fictional, nonfictional) of social movements in the United States in last half of 20th century. Artistic truth in relation to historical truth. Roles/obligations of citizens to protest/change social structures.

WRIT 3361 Literature of Social Movements in the United States: 1950 to 2000
A-F only, 3 credit(s); prereq Soph or jr or sr or instr consent; Meets CLE req of Literature Core;
Instructor: Schuster, Mary Lay
Description: This course focuses on six social movements in the last half of the twentieth century in order to demonstrate how literary analysis helps us understand the personal and political reasons why people become involved in social movements and how they express their arguments and ideologies within the public arena. It also focuses on how literary analysis helps us understand how and why authors and film makers have attempted to capture the events and the ideologies of these acts of protest and the responding acts of control. The course satisfies both a LE literature core requirement and a citizenship and public ethics theme requirement. Thus, the course investigates how these arguments and ideologies, these personal and political reasons, are represented in works of fiction (novels, drama, and film) and in memoirs and documentaries. The six social movements examined within the course are as follows: Civil Rights Movement, Women’s Movement, Vietnam War Protests, AIDS Activism, Disability Movement, and Environmental Movement. Through class discussion and reading, we will identify the persuasive strategies involved in these movements (the rhetorical stances that people for and against the movement might take), the motivations for involvement and commitment on one side or the other, the public expression of these ideals and commitments, and the degree and kind of action taken. We then identify the literary expression of the ideals of each movement as interpreted by a novelist, playwright, documentary filmmaker, and/or popular filmmaker. One of the central questions of the course is why and how people tell stories about important social events—what choices they make in terms of plot, point of view, character, theme, and setting, and why they seem to make these choices to achieve the desired effects on the reader or viewer. The course also invites a critique of the success of these literary or visual efforts given the knowledge we have about the events depicted and the ideologies that drove the events or the historical and contemporary contexts. The other central question of the course is to assess how social movements function rhetorically to persuade and influence public debate and democratic political decision-making. Thus, course discussion and the take-home exams allow students to reflect upon the features of responsible citizenship.
Style: 100% Discussion.
Grading: 35% mid exam, 35% final exam, 15% quizzes, 15% in-class presentation.
Exam Format: The exams are take-home exams with two weeks given to complete them.

WRIT 3371 Technology, Self, and Society
3 credit(s); prereq Soph or jr or sr or instr consent; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Historical Perspective Core;
Instructor: Logue, John
Description: Student may contact the instructor or department for information.

WRIT 3401 Internet Communication: Tools and Issues
3 credit(s); prereq Soph or jr or sr or instr consent;
Instructor: Anheier, Paul Marcoe
Description: Student may contact the instructor or department for information.

WRIT 3562W Technical and Professional Writing
A-F only, 4 credit(s); prereq Jr or sr or instr consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Written/oral communication in professional settings. Gathering information, analyzing audience, assessing conventional formats. Drafting, testing, revising documents. Oral presentation of final reports.

WRIT 3672 Project Design and Development
A-F only, 3 credit(s); prereq [3562W, STC major] or instr consent;
Instructor: Moses, Joseph Kent
Description: Student may contact the instructor or department for information.

WRIT 3701W Rhetorical Theory for Scientific and Technical Communication
4 credit(s); prereq Soph or jr or sr or instr consent Credit will not be granted if the student has already completed Rhet 3701W; Meets CLE req of Writing Intensive;
Instructor: Logue, John
Description: Student may contact the instructor or department for information.

WRIT 4196 Internship in Scientific and Technical Communication
S-N only, 3 credit(s); prereq 3562W, 24 cr in STC major;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

WRIT 4431 Intersections of Scientific and Technical Communication and Law
A-F only, 3 credit(s); prereq Jr or sr or grad student or instr...
WRIT 4501 Usability and Human Factors in Technical Communication
3 credit(s); prereq Jr or sr or grad student or instr consent ;
Instructor: Breuch, Lee-Ann Kastman
Description: Principles/concepts of human factors/usability testing. Developing objectives, criteria, and measures. Conducting tests in lab, field, and virtual environments. Using software programs to analyze qualitative/quantitative data. Lab fee of $36 required for use of the Usability Services Laboratory to conduct usability projects.

WRIT 4561 Editing and Style for Technical Communicators
3 credit(s); prereq [WRIT 3562W or equiv], [[Jr or sr] ST/TC major or grad student] or instr consent ;
Instructor: STAFF
Description: Editorial process, style, and ethics for technical subjects. Practice editing skills, cohesion, clarity, coherency, organization, and target audiences for print and online documents. Learn about the writer-editor relationship, mark-up language, electronic pagination methods, techniques for editing illustrations and Web content, and copyright issues.

WRIT 4662W Emerging Technologies in Scientific and Technical Communication
A-F only, 4 credit(s); prereq Jr or sr or grad student or instr consent ;
Instructor: Kennedy, Krista A
Description: This 4-credit, writing intensive survey course explores the impact of Web 2.0 applications in scientific and technical communication. In this web-based class, we’ll work together to create an extensive informational site on scientific, technical, and social aspects of the 35W bridge collapse. Our project will use wikis, podcasts, tagging, Google Docs, Flickr, Picasa, Moodle, BaseCamp and other content generation/management applications. We’ll also use blogs, IM, Facebook, LinkedIn, Twitter, and Jaiku during the collaborative process. Participants will gain a broad vocabulary and understanding of relevant theories as well as a sense of how different workplace environments are coping with the challenges of sci/tech communication in a period of complex factors, multiple audiences, geographical distances, and fast-changing tools.

WRIT 5051 Graduate Research Writing Practice for Non-native Speakers of English
3 credit(s); prereq Grad student;
Instructor: Strain, Kimberly Ann
Description: WRIT 5051 is designed to help you with the types of scholarly writing you need to do in graduate school. The assignments utilize much of the writing you are already doing for coursework, field-specific articles you are reading for your graduate courses, and research you are already conducting to help you write up the work in an acceptable and polished form. The writing areas in this course focus on rhetorical position, definition of audience, presentation of theory, critiquing, and summarizing techniques. For research writing, we practice integrating secondary sources using paraphrasing, quoting, and documentation techniques that are acceptable at a U.S. university. The assignments may include summaries, critiques, abstracts, proposals, and parts of a thesis or dissertation. Particular attention will be given to clarity of grammar, sentence structure, clarity of expression, use of formal, academic language, and other technical issues in your drafts.
Style: 20% Lecture, 25% Discussion, 45% Instructor-directed work on writing activities and assignments.
Grading: 80% reports/papers, 20% class participation. Percentages may vary slightly by section.

WRIT 5052 Graduate Research Presentations and Conference Writing for Non-Native Speakers of English
3 credit(s); prereq [Grad student, non-native speaker of English] or instr consent ;
Instructor: Holt, Sheryl Lynn
Description: WRIT 5052 helps you learn and practice strategies and specific skills for effective delivery of professional, graduate-level presentations to a U.S. audience. The course systematically and sequentially exposes you to the major principles and features of American professional presentations and provides ample opportunities to practice the language and content to most effectively deliver a dynamic presentation. This course uses an action-learning approach with a heavy emphasis on self-assessment and skill building through video demonstrations, videotaping, and coaching. Individual instruction and feedback will be given on videotaped (DVD) presentations and audio taped pronunciation exercises, as needed. Regular attendance, oral participation in classroom presentations and activities, written self-feedback and correction, and informal, impromptu presentations are expected. In addition, some exercises will be assigned for individual practice for accent reduction, as needed. Students select their own field-specific topics for the presentations according to their areas of research or interests. Presentation practice may include skills for persuasive, topic-based, and research-based presentations. Limited discussion will also include writing abstracts for conferences and other writing related to professional presentations. Pronunciation activities and delivery strategies will be specific to non-native speakers of English including cultural analysis, audience awareness, cultural based delivery techniques, enunciation, stress and rhythm, pacing, volume, and non-verbal communication (eye contact, gestures, facial expressions).
Style: 35% Lecture, 35% Discussion. 65% Instructor-directed work on presentation activities and assignments including in-class presentations.
Grading: 10% written homework, 60% in-class presentation, 30% class participation. Percentages may vary slightly by section.

WRIT 5112 Information Design: Theory and Practice II
A-F only, 3 credit(s); prereq Grad student or instr consent ;
Description: This course will include readings in theory and practice of information design, as well as work on a design project yet to be determined. The course will be delivered in a hybrid format, with 5 face-to-face meetings on Monday evenings from 5:30-8:00: 1/28, 2/4, 3/3, 4/7, & 5/5. The rest of the work will be completed online through a WebCT course site.

WRIT 5196 Internship in Scientific and Technical Communication

S-N only, 3-6 credit(s), max credits 1, 1 repeat allowed; prereq STC or RSTC; instr consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

WRIT 5270 Special Topics

A-F only, 3 credit(s); prereq [[STC or RSTC] [major or grad student]]; instr consent;

Instructor: STAFF

Description: Student may contact the instructor or department for information.

WRIT 5270 Special Topics: Rhetoric of Medicine and the Body

A-F only, 3 credit(s); prereq [[STC or RSTC] [major or grad student]]; instr consent;

Instructor: Berkenkotter, Carol Ann

Description: The purpose of this new course is to explore the place of rhetorical theory and analysis in the broader, interdisciplinary conversations occurring in the medical humanities, science and technology studies, and health communication. It is essential that these disciplines come together to engage in the significant debates that will emerge in the coming years as industrialized countries are forced to come to terms with acute issues in health policies and practices. Rhetorical analysis is particularly well suited to this activity, as it permits examination of the commonly held values that are the currency that funds these debates. Many of these values are tacit, what Kenneth Burke refers to as forming "second nature?: those values that are so fundamental that they go unquestioned and unobserved. Rhetorical analysis lays bare these values and charts their movement through discourse, and thus makes them visible. But it is also the case that rhetorical studies of medicine and the body are not limited to rhetorical scholars; others for example, Bruno Latour, Emily Martin, and Joseph Dumit, anthropologists by training have also analyzed the discourses of public health, hygiene, and inoculation (Latour), brain imaging, (Dumit), and risk prevention from polio to AIDS (Martin). In communication studies, Celeste M. Condit has used the analysis of metaphors to examine the beginning of the era of applications of genetic medicine, and the debates over genetic counseling, and later, consumer guides for using genetics to the advantage of personal health. Thus, the rhetoric of medicine is an interdisciplinary field in the sense that in matters of health and medicine?as elsewhere?the relation of rhetorical studies and studies in other disciplines is "bi-directional?, that is, rhetorical theory itself is affected by its uptake in other disciplines.

WRIT 5671 Visual Rhetoric

A-F only, 3 credit(s); prereq Jr or sr or grad student;

Instructor: Gross, Alan G

Description: In media as dramatically different as political cartoons and scientific articles, meaning is created when words and pictures interact. This phenomenon raises three questions: 1) How does verbal-visual interaction create meaning? 2) How can we account for this interaction? 3) How does what we know about verbal-visual interaction impact on visual design? A wide range of disciplines has had their say: rhetoricians, sociologists, philosophers, historians, semioticians, and cognitive psychologists have all contributed. To shed light on the first question, students will read the work of scholars in communication studies represented in Lester Olson, Cara Finnegan, and Diane Hope?s recent collection, Visual Rhetoric. They will also read historian Martin Rudwick on picturing 18th and 19th century geology; philosophers of science William Wimsatt and James Griesemer on the evolution of Weismann diagrams; philosopher Ronald Giere on the role of the visual in the sea-floor spreading controversy; and sociologist Michael Lynch on the role of visuals in scientific texts. To shed light on the second question, students will read Gunther Kress and Theo van Leeuwen on the semiotics of verbal-visual interaction and Allan Paivio on verbal-visual cognition. To shed light on the third question, students will read Edward Tufte on visual explanation. Grades will be based on a paper in which students will analyze verbal-visual interaction in their field of study and on the quality of a PowerPoint presentation based on that paper.

WRIT 5777 Rhetoric of Science

A-F only, 3 credit(s);

Instructor: Gross, Alan G

Description: Faced with the challenge of science, rhetorical critics have innovated in ways that have implications for rhetorical criticism as a whole. Celeste Condit in The Meaning of the Gene and Alan Gross, Joseph Harmon, and Michael Reidy?s Communicating Science take one innovative path. Each combines social scientific and rhetorical methods in order to incorporate the breadth possible with the one with the depth possible with the other. Leah Ceccarelli?s Shaping Science with Rhetoric and Alan Gross?s Starring the Text take another innovative path. Each unites case studies into an argument in which these studies are transformed into evidence for a general claim. The rhetorical study of science has also flourished in other disciplines. With rhetoric as a guide, historian Bruce Hunt has shed light on physics and historian Frederic Holmes, on chemistry. In A Poetic for Sociology, sociologist Richard Harvey Brown has refigured his discipline, while philosopher Stephen Kellert has illuminated interdisciplinarity in his Borrowed Knowledge: The Challenge of Learning Across Disciplines. In reading these works, students will see rhetorical methods applied to the solution of problems raised in a variety of disciplines: communication studies, history, sociology, and philosophy. The grade in this course will be based on a paper in which students apply rhetoric to science from their own disciplinary perspective.

WRIT 8510 Topics in Rhetorical Theory, History, and Criticism: Rhetorical Stylistics

A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq 5775 or equiv;

Instructor: Graff, Richard J

Description: Topic: "Rhetorical Stylistics" This seminar will consider multiple perspectives on the study of style, focusing on the development of stylistics as a method of descriptive and critical analysis. Brief consideration of the place of style in the history of rhetoric will introduce some of the major stylistic categories and technical vocabulary necessary for understanding more recent developments in style theory. Readings and discussion will then focus especially on introducing, comparing, and assessing different modes of "functional" stylistic analysis -- "functional" designating the study of verbal style in its capacity to achieve ends (e.g., persuasion) or to work effects on receivers of discourse. Readings will be taken primarily from the fields of rhetorical studies and literary stylistics.

Style: 10% Lecture, 85% Discussion, 5% Student Presentation.

WRIT 8540 Topics in Scientific and Technical Communication Pedagogy: Writing Instruction: the Prism of the Popular

A-F only, 3 credit(s), max credits 12, 4 repeats allowed;

Instructor: Reynolds, Thomas Joseph

Description: Student may contact the instructor or department for information.

WRIT 8550 Topics in Technology and Culture: Technical Writing as Cultural Practice

A-F only, 3 credit(s), max credits 12, 4 repeats allowed;

Instructor: Longo, Bernadette

Description: Spring topic: Technical Writing as Cultural Practice This course will explore how technical writing and communication practices take place within cultural tensions, institutional imperatives, historical contexts, situated locations, etc. Students will work with professor to learn about cultural studies as a research method.
YOST 1001 Seeing Youth, Thinking Youth: Media, Popular Media, and Scholarship
3 credit(s);
Instructor: VeLure Roholt, Ross Ronald
Description: This course is our invitation to meet and engage the field of Youth Studies and the Youth Studies Program. By the end of our fifteen weeks together, we expect you to be better able to notice the young people around you in your everyday lives; wonder about them and their lives and worlds; name, describe and analyze what you see and hear, watch, read and look up about youth. And we suspect that while you are doing this, you will also become more attentive to your own everyday life and, indeed, to yourself as a youth. For some of you, this may lead to reflecting on your life's work, on your occupational future and vocational call. This too is encouraged. As always in our Youth Studies Program, this course is about all young people, in Minnesota, in the United States and also internationally. This means that we are attentive to and work hard at including material about youth from all ethnic/racial, social class, geographic, sexual background and communities, as well as those who don't speak English, have a variety of physical and mental capacities, are ?ordinary?, ?normal? and ?typical?, or are not, as seen by themselves, adults and/or other youth. We are after the full range of young people and the full range of ways they live, are perceived, understood and responded to, directly and indirectly, e.g. in public policy, in shopping malls, at skateboard sites and in music venues, for example. We want you to read newspapers, teen magazines, and adolescent novels, watch television and movies, visit youth venues, and begin to make sense of all of this using scholarly perspectives, theories, concepts and research. We expect that you will spend at least three hours per week (of the nine total hours required for a three credit course) in the field? in the community watching, talking, being with and assisting teenagers. Along with the three class hours, this leaves three per week to read and write? i.e. for making sense of what you learn in class in relation to what you read and what you see and do in the community. The result should be a powerful scholarly experience, at once ?practical?, reflective and integrative. This is an introductory course to a subject you know much about? you've lived its content, thought about it, and may even written poems, made a video or rapped about this life-moment. Since you know this so well, why take a university course on it? Because we believe that a course is a space and time to reflect, analyze and learn about what matters to you, about who you are (and where), about scholarly ways of reflecting, analyzing and learning and about the work others have done on this topic. In these ways, this course introduces ways of being an engaged and thoughtful person, citizen and student. We want you to touch the everyday worlds of young people so that require that you do fieldwork. This is basic to all Youth Studies courses, and could help you decide whether this is the major you want.

Style: 20% Lecture, 15% Film/Video, 40% Discussion, 20%
Small Group Activities, 5% Student Presentation.
Grading: 20% special projects, 20% written homework, 15% reflection paper, 5% in-class presentation, 40% class participation.

YOST 1001 Urban Youth and Youth Issues
4 credit(s); prereq 1001 or instr consent 
Instructor: Ross PhD, Terrance Kwaame
Description: Urban youth are the subjects and objects of adult (and youth) interest and concern, and this is found in movies, television, magazines and on the internet; it is heard in music and seen in clothing; it is part of the $500,000,000,000,000 yearly expenditure on advertising and merchandising, much of it directed at (pre)teens. This too we attend to. But most basic to our inquiry is what it is like to do ?young person? in a city and to be a young person in a city, in the United States and worldwide. What are the everyday lives of teenagers, as these vary by historical period, neighborhood, social class, race/ethnicity, sex, and the like, and what do their lives and their ways mean to these youth? that is our major concern: How do they go about their youthness? that is our question. And what sense do adults make of them? that is our second concern. The course title includes the words ?youth issues.? This does not mean ?problems;? rather, it refers both to topics of our interest and scholarship, on the one hand, and, on the other, to what is of interest to particular groups of adults (and youth), at a specific moment/place. All of this is important because there is theory and some evidence that the youth questions/youth problem is a persistent cultural discourse which is used regularly when local conditions are of a certain type and magnitude, such as changes in adult life-circumstances. That is, there are long-time folk and professional ways of thinking and talking about young people, especially so as ?problems,? that are used at certain moments of social tension/confusion, almost regardless of the actual situation/condition of young people in that area and at that moment. This too we must study and understand. A ?youth issue? is not (necessarily) a ?youth problem,? while youth as such are often an issue to adults. We use the word issue in the course title to open up this reticulum of, yes, issues. All of this and more are the substance of this course about youth in cities, here and internationally. It is not a course only about kids on the streets, kids of the streets, teen gangs, prostitution, and the like. It is this, but more: it is about the reality that most young people in the United States and the world are ?city kids? and it is our obligation to understand them in situ, in their terms and ours, and to respond to their call to become adults in ways caring, safe, decent and just.

Style: 10% Lecture, 10% Film/Video, 20% Discussion, 15% Small Group Activities, 20% Student Presentation, 15% Field Trips, 10% Guest Speakers.
Grading: 25% special projects, 25% reflection paper, 25% class participation, 25% other evaluation. Other Evaluation: Field visits.

YOST 3291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 repeat allowed; prereq instr consent
Instructor: VeLure Roholt, Ross Ronald
Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 repeat allowed; prereq instr consent
Instructor: Kimball, Lisa
Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 repeat allowed; prereq instr consent
Instructor: Baizerman, Michael Leon
Description: Student may contact the instructor or department for information.

YOST 400W Constructing Personal Models of Youth

This information is accurate as of 4/7/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Scholarship and Youth Work
4 credit(s); prereq 2002;
Instructor: VeLure Roholt, Ross Ronald
Description: This course integrates and ends the university wide undergraduate Youth Studies Minor. Students will analyze and reflect on Youth Studies Minor content, especially those models, theories, and concepts presented in the introductory course. The four foci remain: Youth, young people, youthhood, and youth work. Class discussion and written assignments will guide the effort to integrate the youth content and then the youth content with models and personal beliefs on how to respond to youth and then all of this with the student's personal occupational and vocational callings.
Style: 10% Lecture, 10% Film/Video, 60% Discussion, 10% Student Presentation, 5% Field Trips, 5% Guest Speakers.
Grading: 30% reports/papers, 20% reflection paper, 30% in-class presentation, 20% class participation.

YOST 4196 Youthwork Internship
4 credit(s); prereq Declaration of youth studies major, instr consent;
Instructor: VeLure Roholt, Ross Ronald
Description: This is the required youth work practice course. The course includes a 100 hour field component and a weekly 2 hour seminar. The focus of the class is on integrating knowledge and youth work skills for entry-level professional work with young people, individually and in groups.
Style: 40% Discussion, 25% Small Group Activities, 10% Student Presentation, 25% Guest Speakers. Internship of 100 hours
Grading: 40% reports/papers, 30% special projects, 20% journal, 10% class participation.

YOST 4314 Theater Activities in Youthwork and Education
2 credit(s); prereq 1001 or 2101; Credit will not be granted if credit has been received for: YOST 5314;
Instructor: Mandell, Janice L
Description: Student may contact the instructor or department for information.

YOST 4401W Young People’s Spirituality and Youthwork: An Introduction
4 credit(s); prereq 1001 or 2002W or instr consent; Credit will not be granted if credit has been received for: YOST 5401; Meets CLE req of Writing Intensive;
Instructor: Kimball, Lisa
Description: Student may contact the instructor or department for information.

YOST 4402 Youth Policy: Enhancing Healthy Development in Everyday Life
4 credit(s); prereq [2001, one course each in [FSoS, PolSci, Soc] or instr consent; Credit will not be granted if credit has been received for: YOST 5402;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

YOST 4411 Youth Research and Youth Program Evaluation
5 credit(s); prereq Basic research methods course or instr consent;
Instructor: Baizerman, Michael Leon
Description: Student may contact the instructor or department for information.

YOST 5291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 repeat allowed;
Instructor: STAFF
Description: Independent reading and/or research under faculty supervision. This course can be taken for undergraduate or graduate credit.
Style: Individually designed and negotiated.

YOST 5314 Theatre Activities in Youthwork and Education
2 credit(s); prereq 1001 or 2101; Credit will not be granted if credit has been received for: YOST 4314;